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(54) Title: NUCLEIC ACIDS, PROTEINS, AND ANTIBODIES

(57) **Abstract:** The present invention relates to novel ovarian related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "ovarian antigens", and the use of such ovarian antigens for detecting disorders of the ovaries and/or breast, particularly the presence of ovarian and/or breast cancer and ovarian and/or breast cancer metastases. More specifically, isolated ovarian associated nucleic acid molecules are provided encoding novel ovarian associated polypeptides. Novel ovarian polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human ovarian associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the ovaries and/or breast, including ovarian and/or breast cancer, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.



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## **Nucleic Acids, Proteins, and Antibodies**

[0001] This application refers to a "Sequence Listing" that is provided on electronic media in computer readable form pursuant to Administrative Instructions Section 801(a)(i). The Sequence Listing forms a part of this description pursuant to Rule 5.2 and Administrative Instructions Sections 801 to 806, and is hereby incorporated in its entirety.

[0002] The Sequence Listing is provided as an electronic file (PA133PCTSL.txt, 7,347,875 bytes in size, created on 07 June 2001) on four identical compact discs (CD-R), labeled "COPY 1," "COPY 2," "COPY 3," and "CRF." The Sequence Listing complies with Annex C of the Administrative Instructions, and may be viewed, for example, on an IBM-PC machine running the MS-Windows operating system by using the V viewer software, version 2000 (see World Wide Web URL: <http://www.fileviewer.com>).

### ***Field of the Invention***

[0003] The present invention relates to novel ovarian related polynucleotides, the polypeptides encoded by these polynucleotides herein collectively referred to as "ovarian antigens," and antibodies that immunospecifically bind these polypeptides, and the use of such ovarian polynucleotides, antigens, and antibodies for detecting, treating, preventing and/or prognosing disorders of the reproductive system, particularly disorders of the ovaries and/or breast, including, but not limited to, the presence of ovarian and/or breast cancer and ovarian and/or breast cancer metastases. More specifically, isolated ovarian nucleic acid molecules are provided encoding novel ovarian polypeptides. Novel ovarian



nucleic acid molecules are provided encoding novel ovarian polypeptides. Novel ovarian polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human ovarian polynucleotides, polypeptides, and/or antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the ovaries and/or breast, including ovarian and/or breast cancer, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The invention further relates to methods and/or compositions for inhibiting or promoting the production and/or function of the polypeptides of the invention.

### ***Background of the Invention***

[0004] The female reproductive system is comprised of both external and internal organs. The external organs function in permitting sperm to enter the body and protecting the internal genital organs from infection and injury. The internal organs form a pathway (the genital tract) for reproduction, beginning at the ovaries, through the fallopian tubes (oviducts) and uterus, to the birth canal (vagina).

[0005] The sexual and reproductive functions in the female can be divided into two major phases: first, preparation of the body for conception, and second, the gestation and parturition. Gestation and parturition only occur if an ovum becomes fertilized. If fertilization does not occur, the reproductive system undergoes a cycle to ensure frequent readiness for conception and fertilization.

[0006] The complexity of the female reproductive system renders it susceptible to several diseases and disorders. In particular, the ovaries and breast are subject to diseases and/or disorders such as infections, hyperproliferative disorders, as well as regulatory and genetic abnormalities.

### ***Disorders of the Ovary***

[0007] A woman's ovaries are located on both sides of the uterus, below the opening of the fallopian tubes (tubes that extend from the uterus to the ovaries). In

addition to producing egg cells for reproduction, the ovaries produce estrogen and progesterone, which affect many of the female characteristics and reproductive functions.

[0008] Anovulation (the absence of egg release by the ovaries) is a serious condition leading to infertility. The exact etiology of anovulation, especially in women with otherwise normal menstrual cycles, is unclear, however several potential causes are under study, including: impaired follicular development (probably due to low or absent estrogen production or binding), normal follicular development with lack of egg release (probably due to progesterone deficiency), or insufficient production of gonadotropin-releasing hormone from the hypothalamus. Current treatments include clomiphene injections or hormonal therapy, although both can lead to serious side effects such as ovarian cancer and ovarian hyperstimulation syndrome.

[0009] Anovulation is also associated with polycystic ovary syndrome (also known as Stein-Leventhal syndrome). This syndrome is an endocrine disorder characterized by an elevated level of male hormones (androgens). Other than anovulation, symptoms include growth of male-patterned body hair (hirsutism), excessive acne, irregular or absent menses, excessive bleeding, and obesity. Usually, the ovaries appear enlarged and may contain many follicular cysts.

[0010] Ovarian cancer develops most often in women between the ages of 50 and 70. It is the third most common cancer of the female reproductive system, but more women die of ovarian cancers than of any other. Ovaries include a variety of cell types, each of which may give rise to a distinct type of cancer, including, but not limited to, ovarian epithelial cancer, ovarian germ cell tumors, ovarian papillary serous adenocarcinoma, ovarian mucinous adenocarcinoma, ovarian Krukenberg tumor, malignant mixed Mullerian tumors, and ovarian low malignant tumors.

[0011] Other disorders of the ovaries also include, but are not limited to, inflammatory disorders, such as oophoritis (e.g., caused by viral or bacterial infection), ovarian cysts, and autoimmune disorders (e.g., premature ovarian failure and autoimmune oophoritis).

### ***Disorders of the Breast***

[0012] The breast is comprised of different structures, each with its own specific function. One-third of the breast is comprised of fatty tissue. The other two-thirds is made

up of structural components called ducts and lobules. Milk is produced in the lobules and funneled through the ducts to the nipple. Disorders of the breast typically involve the formation of lesions within breast tissue. While many of these lesions are benign in nature, they may lead to cancer if left untreated.

[0013] Benign breast lesions include, for example, cysts, which are non-cancerous, fluid-filled sacs that form a mass within breast tissue. The cause of breast cysts is unknown, though injury may be involved, and their main symptom is pain. While considered harmless, a professional should drain cysts and the fluid examined because cancer of the cyst wall, although quite rare, is possible.

[0014] Other benign breast lesions include fibrous breast lumps (fibroadenomas), breast infection (mastitis), intraductal papilloma, and abscesses. Fibrous breast lumps are small, solid lumps of glandular tissue. These lumps usually appear in young women, often in teenagers, and are easy to remove. Intraductal papilloma are small lumps located within a milk duct, often causing inappropriate discharge from the nipple. Breast abscesses are collections of pus in breast tissue that develop from breast infections that go untreated.

[0015] Breast cancer is the most common cancer among women, other than skin cancer and is the second leading cause of cancer death in women, after lung cancer. The American Cancer Society predicts that there will be about 182,800 new cases of invasive breast cancer in the year 2000 among women in this country and about 40,800 deaths from the disease. Breast cancer also occurs among men, although much less often. It is generally believed that this malignancy arises from a multi step process involving mutations in a relatively small number of genes, perhaps 10 or less. These mutations result in significant changes in the growth and differentiation of breast tissue that allow it to grow independent of normal cellular controls, to metastasize, and to escape immune surveillance. The genetic heterogeneity of most breast cancers suggests that they arise by a variety of initiating events and that the characteristics of individual cancers are due to the collective pattern of genetic changes that accumulate.

[0016] The discovery of new human ovarian associated polynucleotides, the polypeptides encoded by them, and antibodies that immunospecifically bind these polypeptides, satisfies a need in the art by providing new compositions which are useful in

the diagnosis, treatment, prevention and/or prognosis of disorders of the ovaries and/or breast, including, but not limited to, neoplastic disorders (e.g., ovarian Krukenberg tumor, malignant mixed Mullerian tumors, and/or as described under "Hyperproliferative Disorders" below), infectious diseases (e.g., mastitis, oophoritis, and/or as described under "Infectious Diseases" below), and inflammatory diseases (e.g., abscesses and/or as described under "Immune Disorders" below) and as described in "Reproductive System Disorders" below.

### *Summary of the Invention*

[0017] The present invention relates to novel ovarian related polynucleotides, the polypeptides encoded by these polynucleotides herein collectively referred to as "ovarian antigens," and antibodies that immunospecifically bind these polypeptides, and the use of such ovarian polynucleotides, antigens, and antibodies for detecting, treating, preventing and/or prognosing disorders of the reproductive system, particularly disorders of the ovaries and/or breast, including, but not limited to, the presence of ovarian and/or breast cancer and ovarian and/or breast cancer metastases. More specifically, isolated ovarian nucleic acid molecules are provided encoding novel ovarian polypeptides. Novel ovarian polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human ovarian polynucleotides, polypeptides, and/or antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the ovaries and/or breast, including ovarian and/or breast cancer, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The invention further relates to methods and/or compositions for inhibiting or promoting the production and/or function of the polypeptides of the invention.

## *Detailed Description*

### **Tables**

[0018] Table 1 summarizes some of the polynucleotides encompassed by the invention (including cDNA clones related to the sequences (Clone ID NO:Z), contig sequences (contig identifier (Contig ID:) and contig nucleotide sequence identifier (SEQ ID NO:X)) and further summarizes certain characteristics of these polynucleotides and the polypeptides encoded thereby. The first column provides a unique clone identifier, "Clone ID NO:Z", for a cDNA plasmid related to each ovarian associated contig sequence disclosed in Table 1. The second column provides a unique contig identifier, "Contig ID:" for each of the contig sequences disclosed in Table 1. The third column provides the sequence identifier, "SEQ ID NO:X", for each of the contig polynucleotide sequences disclosed in Table 1. The fourth column, "ORF (From-To)", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence of SEQ ID NO:X that delineate the preferred open reading frame (ORF) shown in the sequence listing and referenced in Table 1 as SEQ ID NO:Y (column 5). Column 6 lists residues comprising predicted epitopes contained in the polypeptides encoded by each of the preferred ORFs (SEQ ID NO:Y). Identification of potential immunogenic regions was performed according to the method of Jameson and Wolf (CABIOS, 4:181-186 (1988)); specifically, the Genetics Computer Group (GCG) implementation of this algorithm, embodied in the program PEPTIDESTRUCTURE (Wisconsin Package v10.0, Genetics Computer Group (GCG), Madison, Wisc.). This method returns a measure of the probability that a given residue is found on the surface of the protein. Regions where the antigenic index score is greater than 0.9 over at least 6 amino acids are indicated in Table 1 as "Predicted Epitopes." In particular embodiments, ovarian associated polypeptides of the invention comprise, or alternatively consist of, one, two, three, four, five or more of the predicted epitopes described in Table 1. It will be appreciated that depending on the analytical criteria used to predict antigenic determinants, the exact address of the determinant may vary slightly. Column 7, "Tissue Distribution" shows the expression profile of tissue, cells, and/or cell line libraries which express the polynucleotides of the invention. The first number in column 7 (preceding the colon), represents the tissue/cell source identifier

code corresponding to the code and description provided in Table 4. Expression of these polynucleotides was not observed in the other tissues and/or cell libraries tested. For those identifier codes in which the first two letters are not "AR", the second number in column 7 (following the colon), represents the number of times a sequence corresponding to the reference polynucleotide sequence (e.g., SEQ ID NO:X) was identified in the tissue/cell source. Those tissue/cell source identifier codes in which the first two letters are "AR" designate information generated using DNA array technology. Utilizing this technology, cDNAs were amplified by PCR and then transferred, in duplicate, onto the array. Gene expression was assayed through hybridization of first strand cDNA probes to the DNA array. cDNA probes were generated from total RNA extracted from a variety of different tissues and cell lines. Probe synthesis was performed in the presence of <sup>33</sup>P dCTP, using oligo(dT) to prime reverse transcription. After hybridization, high stringency washing conditions were employed to remove non-specific hybrids from the array. The remaining signal, emanating from each gene target, was measured using a Phosphorimager. Gene expression was reported as Phosphor Stimulating Luminescence (PSL) which reflects the level of phosphor signal generated from the probe hybridized to each of the gene targets represented on the array. A local background signal subtraction was performed before the total signal generated from each array was used to normalize gene expression between the different hybridizations. The value presented after "[array code]:" represents the mean of the duplicate values, following background subtraction and probe normalization. One of skill in the art could routinely use this information to identify normal and/or diseased tissue(s) which show a predominant expression pattern of the corresponding polynucleotide of the invention or to identify polynucleotides which show predominant and/or specific tissue and/or cell expression. Column 8, "Cytologic Band," provides the chromosomal location of polynucleotides corresponding to SEQ ID NO:X. Chromosomal location was determined by finding exact matches to EST and cDNA sequences contained in the NCBI (National Center for Biotechnology Information) UniGene database. Given a presumptive chromosomal location, disease locus association was determined by comparison with the Morbid Map, derived from Online Mendelian Inheritance in Man (Online Mendelian Inheritance in Man, OMIM™. McKusick-Nathans Institute for Genetic Medicine, Johns Hopkins University (Baltimore, MD) and National Center for Biotechnology Information, National Library of Medicine (Bethesda, MD) 2000. World

Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>). If the putative chromosomal location of the Query overlapped with the chromosomal location of a Morbid Map entry, an OMIM identification number is provided in column 9 labeled "OMIM Disease Reference(s)". A key to the OMIM reference identification numbers is provided in Table 5.

[0019] Table 2 summarizes homology and features of some of the polypeptides of the invention. The first column provides a unique clone identifier, "Clone ID NO:Z", corresponding to a cDNA disclosed in Table 1. The second column provides the unique contig identifier, "Contig ID:" corresponding to contigs in Table 1 and allowing for correlation with the information in Table 1. The third column provides the sequence identifier, "SEQ ID NO:X", for the contig polynucleotide sequences. The fourth column provides the analysis method by which the homology/identity disclosed in the row was determined. Comparisons were made between polypeptides encoded by the polynucleotides of the invention and either a non-redundant protein database (herein referred to as "NR"), or a database of protein families (herein referred to as "PFAM") as further described below. The fifth column provides a description of PFAM/NR hits having significant matches to a polypeptide of the invention. Column six provides the accession number of the PFAM/NR hit disclosed in the fifth column. Column seven, "Score/Percent Identity", provides a quality score or the percent identity, of the hit disclosed in column five. Columns 8 and 9, "NT From" and "NT To" respectively, delineate the polynucleotides in "SEQ ID NO:X" that encode a polypeptide having a significant match to the PFAM/NR database as disclosed in the fifth column. In specific embodiments, polypeptides of the invention comprise, or alternatively consist of, an amino acid sequence encoded by the polynucleotides in SEQ ID NO:X as delineated in columns 8 and 9, or fragments or variants thereof.

[0020] Table 3 provides polynucleotide sequences that may be disclaimed according to certain embodiments of the invention. The first column provides a unique clone identifier, "Clone ID NO:Z", for a cDNA clone related to ovarian associated contig sequences disclosed in Table 1. The second column provides the sequence identifier, "SEQ ID NO:X", for contig polynucleotide sequences disclosed in Table 1. The third column provides the unique contig identifier, "Contig ID", for contigs disclosed in Table 1. The fourth column provides a unique integer 'a' where 'a' is any integer between 1 and

the final nucleotide minus 15 of SEQ ID NO:X, represented as "Range of a", and the fifth column provides a unique integer 'b' where 'b' is any integer between 15 and the final nucleotide of SEQ ID NO:X, represented as "Range of b", where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:X, and where b is greater than or equal to a + 14. For each of the polynucleotides shown as SEQ ID NO:X, the uniquely defined integers can be substituted into the general formula of a-b, and used to describe polynucleotides which may be preferably excluded from the invention. In certain embodiments, preferably excluded from the polynucleotides of the invention (including polynucleotide fragments and variants as described herein and diagnostic and/or therapeutic uses based on these polynucleotides) are at least one, two, three, four, five, ten, or more of the polynucleotide sequence(s) having the accession number(s) disclosed in the sixth column of this Table. In further embodiments, preferably excluded from the invention are the specific polynucleotide sequence(s) contained in the clones corresponding to at least one, two, three, four, five, ten, or more of the available material having the accession numbers identified in the sixth column of this Table.

[0021] Table 4 provides a key to the tissue/cell source identifier code disclosed in Table 1, column 7. Column 1 provides the key to the tissue/cell source identifier code disclosed in Table 1, Column 7. Columns 2-5 provide a description of the tissue or cell source. Codes corresponding to diseased tissues are indicated in column 6 with the word "disease". The use of the word "disease" in column 6 is non-limiting. The tissue or cell source may be specific (e.g. a neoplasm), or may be disease-associated (e.g., a tissue sample from a normal portion of a diseased organ). Furthermore, tissues and/or cells lacking the "disease" designation may still be derived from sources directly or indirectly involved in a disease state or disorder, and therefore may have a further utility in that disease state or disorder. In numerous cases where the tissue/cell source is a library, column 7 identifies the vector used to generate the library.

[0022] Table 5 provides a key to the OMIM™ reference identification numbers disclosed in Table 1, column 9. OMIM reference identification numbers (Column 1) were derived from Online Mendelian Inheritance in Man (Online Mendelian Inheritance in Man, OMIM™. McKusick-Nathans Institute for Genetic Medicine, Johns Hopkins University (Baltimore, MD) and National Center for Biotechnology Information, National Library of Medicine, (Bethesda, MD) 2000. World Wide Web URL:



<http://www.ncbi.nlm.nih.gov/omim/>). Column 2 provides diseases associated with the cytologic band disclosed in Table 1, column 8, as determined from the Morbid Map database.

[0023] Table 6 summarizes ATCC Deposits, Deposit dates, and ATCC designation numbers of deposits made with the ATCC in connection with the present application.

[0024] Table 7 shows the cDNA libraries sequenced, tissue source description, vector information and ATCC designation numbers relating to these cDNA libraries.

### **Definitions**

[0025] The following definitions are provided to facilitate understanding of certain terms used throughout this specification.

[0026] In the present invention, "isolated" refers to material removed from its original environment (e.g., the natural environment if it is naturally occurring), and thus is altered "by the hand of man" from its natural state. For example, an isolated polynucleotide could be part of a vector or a composition of matter, or could be contained within a cell, and still be "isolated" because that vector, composition of matter, or particular cell is not the original environment of the polynucleotide. The term "isolated" does not refer to genomic or cDNA libraries, whole cell total or mRNA preparations, genomic DNA preparations (including those separated by electrophoresis and transferred onto blots), sheared whole cell genomic DNA preparations or other compositions where the art demonstrates no distinguishing features of the polynucleotide sequences of the present invention.

[0027] As used herein, a "polynucleotide" refers to a molecule having a nucleic acid sequence encoding SEQ ID NO:Y or a fragment or variant thereof; a nucleic acid sequence contained in SEQ ID NO:X (as described in column 3 of Table 1) or the complement thereof; or a cDNA sequence contained in Clone ID NO:Z (as described in column 1 of Table 1 and contained within a library deposited with the ATCC). For example, the polynucleotide can contain the nucleotide sequence of the full length cDNA sequence, including the 5' and 3' untranslated sequences, the coding region, as well as fragments, epitopes, domains, and variants of the nucleic acid sequence. Moreover, as used herein, a "polypeptide" refers to a molecule having an amino acid sequence encoded by a polynucleotide of the invention as broadly defined (obviously excluding poly-

Phenylalanine or poly-Lysine peptide sequences which result from translation of a polyA tail of a sequence corresponding to a cDNA).

[0028] As used herein, an "ovarian antigen" refers collectively to any polynucleotide disclosed herein (e.g., a nucleic acid sequence contained in SEQ ID NO:X or the complement thereof, or cDNA sequence contained in Clone ID NO:Z, (e.g., a nucleic acid sequence contained in SEQ ID NO:X or the complement thereof, or cDNA sequence contained in Clone ID NO:Z, and fragments or variants thereof as described herein) or any polypeptide disclosed herein (e.g., an amino acid sequence contained in SEQ ID NO:Y, an amino acid sequence encoded by SEQ ID NO:X, or the complement thereof, an amino acid sequence encoded by the cDNA sequence contained in Clone ID NO:Z, and fragments or variants thereof as described herein). These ovarian antigens have been determined to be predominantly expressed in ovarian tissues, including normal or diseased tissues (as shown in Table 1 column 7 and Table 4).

[0029] In the present invention, "SEQ ID NO:X" was often generated by overlapping sequences contained in multiple clones (contig analysis). A representative clone containing all or most of the sequence for SEQ ID NO:X is deposited at Human Genome Sciences, Inc. (HGS) in a catalogued and archived library. As shown, for example, in column 1 of Table 1, each clone is identified by a cDNA Clone ID (identifier generally referred to herein as Clone ID NO:Z). Each Clone ID is unique to an individual clone and the Clone ID is all the information needed to retrieve a given clone from the HGS library. Furthermore, certain clones disclosed in this application have been deposited with the ATCC on June 5, 2000 and were given ATCC Deposit Nos. PTA-1982 and PTA-1985. In addition to the individual cDNA clone deposits, most of the cDNA libraries from which the clones were derived were deposited at the American Type Culture Collection (hereinafter "ATCC"). Table 7 provides a list of the deposited cDNA libraries. One can use the Clone ID NO:Z to determine the library source by reference to Tables 6 and 7. Table 7 lists the deposited cDNA libraries by name and links each library to an ATCC Deposit. Library names contain four characters, for example, "HTWE." The name of a cDNA clone (Clone ID NO:Z) isolated from that library begins with the same four characters, for example "HTWEP07". As mentioned below, Table 1 correlates the Clone ID NO:Z names with SEQ ID NO:X. Thus, starting with an SEQ ID NO:X, one can use Tables 1A, 6 and 7 to determine the corresponding Clone ID NO:Z, which library it came

from and which ATCC deposit the library is contained in. Furthermore, it is possible to retrieve a given cDNA clone from the source library by techniques known in the art and described elsewhere herein. The ATCC is located at 10801 University Boulevard, Manassas, Virginia 20110-2209, USA. The ATCC deposits were made pursuant to the terms of the Budapest Treaty on the international recognition of the deposit of microorganisms for the purposes of patent procedure.

[0030] In specific embodiments, the polynucleotides of the invention are at least 15, at least 30, at least 50, at least 100, at least 125, at least 500, or at least 1000 continuous nucleotides but are less than or equal to 300 kb, 200 kb, 100 kb, 50 kb, 15 kb, 10 kb, 7.5 kb, 5 kb, 2.5 kb, 2.0 kb, or 1 kb, in length. In a further embodiment, polynucleotides of the invention comprise a portion of the coding sequences, as disclosed herein, but do not comprise all or a portion of any intron. In another embodiment, the polynucleotides comprising coding sequences do not contain coding sequences of a genomic flanking gene (i.e., 5' or 3' to the gene of interest in the genome). In other embodiments, the polynucleotides of the invention do not contain the coding sequence of more than 1000, 500, 250, 100, 50, 25, 20, 15, 10, 5, 4, 3, 2, or 1 genomic flanking gene(s).

[0031] A "polynucleotide" of the present invention also includes those polynucleotides capable of hybridizing, under stringent hybridization conditions, to sequences contained in SEQ ID NO:X, or the complement thereof (e.g., the complement of any one, two, three, four, or more of the polynucleotide fragments described herein), the polynucleotide sequence delineated in columns 8 and 9 of Table 2 or the complement thereof, and/or cDNA sequences contained in Clone ID NO:Z (e.g., the complement of any one, two, three, four, or more of the polynucleotide fragments, and/or the cDNA clone within the pool of cDNA clones deposited with the ATCC, described herein). "Stringent hybridization conditions" refers to an overnight incubation at 42 degree C in a solution comprising 50% formamide, 5x SSC (750 mM NaCl, 75 mM trisodium citrate), 50 mM sodium phosphate (pH 7.6), 5x Denhardt's solution, 10% dextran sulfate, and 20 µg/ml denatured, sheared salmon sperm DNA, followed by washing the filters in 0.1x SSC at about 65 degree C.

[0032] Also contemplated are nucleic acid molecules that hybridize to the polynucleotides of the present invention at lower stringency hybridization conditions.

Changes in the stringency of hybridization and signal detection are primarily accomplished through the manipulation of formamide concentration (lower percentages of formamide result in lowered stringency), salt conditions, or temperature. For example, lower stringency conditions include an overnight incubation at 37 degree C in a solution comprising 6X SSPE (20X SSPE = 3M NaCl; 0.2M NaH<sub>2</sub>PO<sub>4</sub>; 0.02M EDTA, pH 7.4), 0.5% SDS, 30% formamide, 100 ug/ml salmon sperm blocking DNA; followed by washes at 50 degree C with 1XSSPE, 0.1% SDS. In addition, to achieve even lower stringency, washes performed following stringent hybridization can be done at higher salt concentrations (e.g. 5X SSC).

[0033] Note that variations in the above conditions may be accomplished through the inclusion and/or substitution of alternate blocking reagents used to suppress background in hybridization experiments. Typical blocking reagents include Denhardt's reagent, BLOTTO, heparin, denatured salmon sperm DNA, and commercially available proprietary formulations. The inclusion of specific blocking reagents may require modification of the hybridization conditions described above, due to problems with compatibility.

[0034] Of course, a polynucleotide which hybridizes only to polyA<sup>+</sup> sequences (such as any 3' terminal polyA<sup>+</sup> tract of a cDNA shown in the sequence listing), or to a complementary stretch of T (or U) residues, would not be included in the definition of "polynucleotide," since such a polynucleotide would hybridize to any nucleic acid molecule containing a poly (A) stretch or the complement thereof (e.g., practically any double-stranded cDNA clone generated using oligo dT as a primer).

[0035] The polynucleotide of the present invention can be composed of any polyribonucleotide or polydeoxribonucleotide, which may be unmodified RNA or DNA or modified RNA or DNA. For example, polynucleotides can be composed of single- and double-stranded DNA, DNA that is a mixture of single- and double-stranded regions, single- and double-stranded RNA, and RNA that is mixture of single- and double-stranded regions, hybrid molecules comprising DNA and RNA that may be single-stranded or, more typically, double-stranded or a mixture of single- and double-stranded regions. In addition, the polynucleotide can be composed of triple-stranded regions comprising RNA or DNA or both RNA and DNA. A polynucleotide may also contain one or more modified bases or DNA or RNA backbones modified for stability or for other reasons.

"Modified" bases include, for example, tritylated bases and unusual bases such as inosine. A variety of modifications can be made to DNA and RNA; thus, "polynucleotide" embraces chemically, enzymatically, or metabolically modified forms.

[0036] The polypeptide of the present invention can be composed of amino acids joined to each other by peptide bonds or modified peptide bonds, i.e., peptide isosteres, and may contain amino acids other than the 20 gene-encoded amino acids. The polypeptides may be modified by either natural processes, such as posttranslational processing, or by chemical modification techniques which are well known in the art. Such modifications are well described in basic texts and in more detailed monographs, as well as in a voluminous research literature. Modifications can occur anywhere in a polypeptide, including the peptide backbone, the amino acid side-chains and the amino or carboxyl termini. It will be appreciated that the same type of modification may be present in the same or varying degrees at several sites in a given polypeptide. Also, a given polypeptide may contain many types of modifications. Polypeptides may be branched, for example, as a result of ubiquitination, and they may be cyclic, with or without branching. Cyclic, branched, and branched cyclic polypeptides may result from posttranslation natural processes or may be made by synthetic methods. Modifications include acetylation, acylation, ADP-ribosylation, amidation, covalent attachment of flavin, covalent attachment of a heme moiety, covalent attachment of a nucleotide or nucleotide derivative, covalent attachment of a lipid or lipid derivative, covalent attachment of phosphatidylinositol, cross-linking, cyclization, disulfide bond formation, demethylation, formation of covalent cross-links, formation of cysteine, formation of pyroglutamate, formylation, gamma-carboxylation, glycosylation, GPI anchor formation, hydroxylation, iodination, methylation, myristoylation, oxidation, pegylation, proteolytic processing, phosphorylation, prenylation, racemization, selenoylation, sulfation, transfer-RNA mediated addition of amino acids to proteins such as arginylation, and ubiquitination. (See, for instance, PROTEINS - STRUCTURE AND MOLECULAR PROPERTIES, 2nd Ed., T. E. Creighton, W. H. Freeman and Company, New York (1993); POSTTRANSLATIONAL COVALENT MODIFICATION OF PROTEINS, B. C. Johnson, Ed., Academic Press, New York, pgs. 1-12 (1983); Seifter et al., Meth. Enzymol. 182:626-646 (1990); Rattan et al., Ann. N.Y. Acad. Sci. 663:48-62 (1992).)

[0037] "SEQ ID NO:X" refers to a polynucleotide sequence described, for example, in Tables 1A or 2, while "SEQ ID NO:Y" refers to a polypeptide sequence described in column 5 of Table 1. SEQ ID NO:X is identified by an integer specified in column 3 of Table 1. The polypeptide sequence SEQ ID NO:Y is a translated open reading frame (ORF) encoded by polynucleotide SEQ ID NO:X. "Clone ID NO:Z" refers to a cDNA clone described in column 1 of Table 1.

[0038] "A polypeptide having biological activity" refers to a polypeptide exhibiting activity similar to, but not necessarily identical to, an activity of a polypeptide of the present invention, including mature forms, as measured in a particular biological assay, with or without dose dependency. In the case where dose dependency does exist, it need not be identical to that of the polypeptide, but rather substantially similar to the dose-dependence in a given activity as compared to the polypeptide of the present invention (i.e., the candidate polypeptide will exhibit greater activity or not more than about 25-fold less and, preferably, not more than about tenfold less activity, and most preferably, not more than about three-fold less activity relative to the polypeptide of the present invention).

[0039] Table 1 summarizes some of the polynucleotides encompassed by the invention (including contig sequences (SEQ ID NO:X) and clones (Clone ID NO:Z) and further summarizes certain characteristics of these polynucleotides and the polypeptides encoded thereby.

### **Polynucleotides and Polypeptides**

**TABLE 1**

Clone ID NO: Z	Contig ID:	SEQ ID NO: X	ORF (From-To)	AA SEQ ID NO: Y	Predicted Epitopes	Tissue Distribution Library code: count (see Table IV for Library Codes)	Cytologic Band	OMIM Disease Reference(s):
HOVCD34	396327	11	158 - 328	2186		H0428: 2		
HEBGD58	498281	12	3 - 107	2187	His-1 to Gly-19, Gly-29 to Tyr-35.	L0744: 5, L0758: 5, L0766: 4, L0803: 4, L0439: 4, L0759: 4, H0657: 3, H0341: 3, L0794: 3, H0648: 3, L0747: 3, L0752: 3, S0422: 2, L0598: 2, L0770: 2, L0809: 2, H0696: 2, L0742: 2, L0755: 2, H0716: 1, S0116: 1, H0638: 1, S0444: 1, S0360: 1, H0637: 1, H0580: 1, S0007: 1, L0586: 1, H0156: 1, H0599: 1, L0022: 1, H0042: 1, H0318: 1, H0327: 1, H0328: 1, H0615: 1, L0483: 1, S0112: 1, T0042: 1, H0560: 1, H0625: 1, L0769: 1, L0800: 1, L0764: 1, L0804: 1, L0375: 1,		

						L0805: 1, L0776: 1, L0791: 1, L0792: 1, L4501: 1, L0666: 1, L0663: 1, H0144: 1, L0352: 1, H0547: 1, H0519: 1, H0659: 1, H0660: 1, S0152: 1, H0521: 1, H0522: 1, S0028: 1, L0749: 1, L0756: 1, L0753: 1, L0757: 1, H0445: 1, L0588: 1, L0592: 1 and S0192: 1.		
HETCD42	533532	13	18 - 947	2188	Glu-29 to Lys-37, Lys-110 to Ile-118, Arg-126 to Cys-135, Lys-157 to Gly-163, Gln-188 to Trp-201, Glu-269 to Thr-278.	H0013: 8, L0731: 8, L0471: 6, S0003: 6, H0547: 6, L0439: 6, L0740: 6, H0046: 5, H0144: 5, H0171: 4, H0494: 4, L0766: 4, L0775: 4, L0666: 4, H0521: 4, L0754: 4, L0588: 4, L0600: 4, H0624: 3, H0657: 3, H0575: 3, H0591: 3, H0551: 3, H0529: 3, S0126: 3, H0696: 3, L0745: 3, S0040: 2, H0295: 2, S0116: 2, H0638: 2, S0356: 2, S0376: 2, S0278: 2,	7q31.2- q31.3	150240, 164160, 180105, 190900, 222800, 246900, 602421, 602421, 602421



					H0156: 2, H0036: 2, H0266: 2, H0179: 2, H0328: 2, H0615: 2, H0039: 2, H0622: 2, H0031: 2, H0090: 2, H0412: 2, H0623: 2, H0560: 2, H0625: 2, S0422: 2, L0770: 2, L0662: 2, L0768: 2, L0649: 2, L0803: 2, H0684: 2, S0152: 2, S0028: 2, S0206: 2, L0752: 2, L0757: 2, L0759: 2, S0031: 2, S0434: 2, L0362: 2, S0026: 2, S0196: 2, H0170: 1, H0556: 1, S0342: 1, S0134: 1, S0212: 1, H0661: 1, S0418: 1, S0420: 1, S0354: 1, S0358: 1, S0444: 1, H0580: 1, S0045: 1, S0132: 1, H0393: 1, L0717: 1, S0222: 1, H0614: 1, H0357: 1, H0587: 1, H0632: 1, H0270: 1, T0114: 1, H0250: 1, S0280: 1, S0474: 1, H0581: 1, H0374: 1,		
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					H0052: 1, H0232: 1, H0050: 1, H0024: 1, H0014: 1, H0373: 1, H0051: 1, S0051: 1, H0355: 1, H0375: 1, H0594: 1, S0214: 1, L0483: 1, H0553: 1, H0644: 1, H0032: 1, H0212: 1, S0036: 1, H0038: 1, H0264: 1, H0413: 1, H0056: 1, T0042: 1, S0466: 1, H0509: 1, H0207: 1, H0641: 1, H0647: 1, S0344: 1, L0638: 1, L0637: 1, L0794: 1, L0804: 1, L0805: 1, L0656: 1, L0635: 1, L0528: 1, L0664: 1, L0665: 1, H0520: 1, H0519: 1, H0593: 1, H0435: 1, H0659: 1, H0670: 1, H0672: 1, H0651: 1, S0328: 1, S0330: 1, L0602: 1, H0518: 1, S0176: 1, H0555: 1, S0390: 1, L0750: 1, S0260: 1, H0595: 1, L0599: 1, L0608: 1, H0668: 1,	
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							H0653: 1, S0192: 1, H0543: 1 and : 1.			
HTXKC18	535854	14	387 - 115	2189		Ser-57 to Gly-65, Gly-80 to His-86.	AR039: 65, AR096: 37, AR104: 37, AR089: 32, AR053: 27, AR052: 25, AR033: 22, AR060: 21, AR055: 21, AR061: 11 H0556: 1			
HLD RK20	553765	15	48 - 1214	2190		Thr-8 to Thr-19, Arg-108 to Ser-115, Ser-117 to Arg-128, Phe-143 to Tyr-155, Leu-171 to Arg-177, Asn-182 to Gly-187, Gly-195 to Ser-200, Arg-232 to Thr-248, Pro-287 to Arg-293.	L0665: 45, L0581: 42, H0509: 32, H0393: 15, H0574: 15, H0510: 15, L0362: 14, L0666: 11, H0658: 10, L0748: 10, H0014: 9, S0410: 8, H0331: 8, H0674: 8, S0438: 8, L0657: 8, H0689: 8, H0039: 7, L0659: 7, H0670: 7, S0044: 7, H0663: 6, H0622: 5, H0641: 5, S0360: 4, H0046: 4, H0246: 4, H0355: 4, H0169: 4, H0648: 4, L0749: 4, S0318: 3, L0662: 3, L0768: 3, L0775: 3, L0664: 3, H0682: 3, L0751: 3, H0506: 3, S0132: 2, H0441: 2, H0632: 2,	6p21.3	106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550,	

H2MBD33	558474	16	138 - 290	2191	Ser-13 to Asp-18.	S0434: 2, L0601: 2, H0624: 1, L0615: 1, H0662: 1, S0356: 1, L0717: 1, H0549: 1, H0431: 1, H0586: 1, H0643: 1, H0575: 1, H0569: 1, H0057: 1, H0015: 1, H0687: 1, S0003: 1, S0214: 1, H0688: 1, H0553: 1, H0124: 1, H0059: 1, L0564: 1, L0065: 1, S0440: 1, L0638: 1, L0646: 1, L0764: 1, L0771: 1, L0386: 1, L0375: 1, L0525: 1, L0378: 1, L0776: 1, L0634: 1, L0544: 1, H0144: 1, S0374: 1, H0693: 1, S0310: 1, H0593: 1, S0126: 1, H0690: 1, H0684: 1, H0435: 1, H0660: 1, H0666: 1, S0328: 1, H0521: 1, S0406: 1, H0555: 1, S0027: 1, L0750: 1, L0755: 1, S0031: 1, S0192: 1, S0276: 1 and S0196: 1.	600202, 600261, 601868, 602280, 602475
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HSYBX61	558708	17	3 - 515	2192	Arg-13 to Ala-20, Pro-27 to Arg-32, Lys-37 to Glu-62.	T0109: 1, H0428: 1, H0264: 1, L0764: 1, L0665: 1 and H0648: 1, H0428: 2, L0757: 2, H0170: 1, S0007: 1, H0028: 1, S0250: 1, H0252: 1, H0328: 1, H0124: 1, H0551: 1, L0439: 1 and L0750: 1.	18q12.1	176300, 176300, 176300, 176300
HELHC03	562745	18	623 - 1018	2193	Pro-105 to Trp-117.	AR089: 5, AR096: 4, AR060: 3, AR104: 3, AR061: 2, AR055: 2, AR033: 1, AR053: 1, AR039: 0 H0615: 2, H0346: 1, S0045: 1, H0156: 1, H0659: 1, L0748: 1 and H0444: 1.		
HOFMP70	585385	19	99 - 347	2194		H0415: 3	12q24.2- q24.3	100650, 100650, 142410, 142410, 142410, 160781, 181405
HSKNZ25	585675	20	357 - 641	2195	Gly-1 to Ala-9, Pro-42 to Ser-56, Leu-60 to Gly-67, Ala-86 to Asp-95.	S3012: 1		
HDPFK39	588869	21	1 - 720	2196	Pro-14 to Ser-19,	H0521: 4, H0415: 1	16p11.2	147781,

					Glu-55 to Phe-60, Asp-93 to Ser-98, Thr-138 to Tyr-144, Asn-155 to Phe-163, Arg-168 to Ser-175, Gln-205 to Lys-210, Phe-226 to Thr-233.	and H0522: 1.			172471, 182381
HL1AB07	638220	22	2 - 514	2197	Asn-18 to Arg-24, Arg-30 to Tyr-35, Glu-43 to Asp-51, Glu-56 to Gly-66, Leu-101 to Lys-107, Ala-156 to His-171.	L0747: 15, L0742: 12, L0748: 12, L0752: 12, L0757: 9, L0731: 8, L0754: 7, S0144: 6, L0755: 6, S0356: 5, S0406: 5, L0740: 5, H0046: 4, L0764: 4, H0543: 4, H0250: 3, H0040: 3, L0761: 3, L0646: 3, L0774: 3, L0806: 3, L0751: 3, L0745: 3, L0753: 3, L0759: 3, S0212: 2, H0661: 2, S0360: 2, S0280: 2, H0014: 2, H0039: 2, S0036: 2, H0163: 2, L0768: 2, L0775: 2, L0776: 2, L0379: 2, L0783: 2, L0809: 2, H0702: 2, S0126: 2, H0689: 2, H0658: 2, H0672: 2, L0439: 2, L0750: 2,	7q36	142335, 152427, 163729, 176450, 190605, 600510, 600725	

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						L0642: 1, L0645: 1, L0771: 1, L0648: 1, L0662: 1, L0364: 1, L0375: 1, L0655: 1, L0807: 1, L0657: 1, L0659: 1, L0532: 1, L0666: 1, L0664: 1, L0665: 1, H0144: 1, H0701: 1, H0711: 1, S0380: 1, H0521: 1, S0404: 1, S0206: 1, L0749: 1, L0777: 1, H0445: 1, L0599: 1, S0276: 1, H0423: 1 and H0506: 1.				
HHGAS83	654868	23	115 - 393	2198		L0744: 11, S0007: 10, H0617: 10, L0747: 9, H0673: 8, H0597: 6, L0809: 6, H0683: 6, L0748: 6, L0754: 6, L0731: 6, L0622: 5, L0542: 5, L0755: 5, H0306: 4, H0402: 4, H0150: 4, H0188: 4, L0775: 4, L0751: 4, H0170: 3, H0255: 3, S0278: 3, T0006: 3, H0674: 3, L0774: 3, L0740: 3, L0745: 3, H0352: 3, H0657: 2,	17			



L0785: 2, H0661: 2, S0376: 2, S0360: 2, H0637: 2, H0333: 2, H0486: 2, H0309: 2, H0545: 2, H0123: 2, H0594: 2, H0032: 2, H0169: 2, S0142: 2, L0767: 2, L0776: 2, L0655: 2, L0529: 2, L0530: 2, L0666: 2, L0663: 2, L0664: 2, H0682: 2, L0750: 2, L0753: 2, L0757: 2, L0759: 2, L0588: 2, L0361: 2, S0114: 1, T0049: 1, S0134: 1, H0254: 1, S0358: 1, H0580: 1, H0339: 1, S0046: 1, S0140: 1, S6026: 1, S0300: 1, S6022: 1, H0441: 1, H0455: 1, H0643: 1, T0060: 1, L0021: 1, H0042: 1, H0618: 1, H0253: 1, N0011: 1, S0049: 1, H0327: 1, H0530: 1, H0546: 1, H0086: 1, H0009: 1, H0081: 1, H0050: 1, H0620: 1, H0024: 1,					
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	H0057: 1, H0373: 1, S0051: 1, H0071: 1, H0687: 1, S0003: 1, S0214: 1, H0417: 1, H0031: 1, H0553: 1, H0111: 1, H0181: 1, H0606: 1, H0038: 1, H0616: 1, H0063: 1, H0087: 1, H0412: 1, H0059: 1, T0069: 1, T0004: 1, L0564: 1, S0440: 1, S0144: 1, S0344: 1, S0208: 1, L0598: 1, L0520: 1, L0763: 1, L0371: 1, L0770: 1, L0667: 1, L0764: 1, L0765: 1, L0771: 1, L0662: 1, L0375: 1, L0376: 1, L0378: 1, L0806: 1, L0658: 1, L0659: 1, L0518: 1, L0783: 1, L0788: 1, S0053: 1, H0691: 1, H0519: 1, S0126: 1, H0689: 1, H0660: 1, S0330: 1, H0696: 1, S0404: 1, H0576: 1, S3014: 1, S0206: 1, L0742: 1, L0743: 1, L0749: 1,				
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								L0752: 1, H0445: 1, L0589: 1, L0592: 1, L0608: 1, H0422: 1, H0008: 1 and H0293: 1.			
HTSGU37	704405	24	3 - 515	2199			Ile-1 to Thr-10, Pro-66 to Gly-77, Asp-85 to Gly-116.	AR089: 7, AR060: 6, AR096: 5, AR104: 3, AR055: 3, AR061: 2 L0746: 2, H0592: 1, H0087: 1, L4501: 1, L0665: 1 and L0758: 1.	1p33-p32	120260, 120950, 120960, 138140, 178300, 187040, 246450, 600101, 600650, 600650, 600722, 600722	
H2LAN34	705692	25	2 - 211	2200				T0115: 1, L0662: 1, L0766: 1, L0659: 1, L0809: 1, L0748: 1 and H0444: 1.			
HPMBZ40	711500	26	402 - 590	2201			Gly-13 to Val-36.		2		
HLYEP52	732342	27	2 - 721	2202					16p13.3	141750, 141800, 141800, 141800, 141800, 141850, 141850, 141850, 141850,	

								141850, 156850, 186580, 191092, 600140, 600273, 601313, 601785
HTTEC47	745343	28	329 - 433	2203			AR096: 3, AR053: 2, AR060: 2, AR089: 2, AR033: 1, AR061: 1, AR055: 1, AR104: 0, AR039: 0 L0766: 2, S0354: 1, H0135: 1 and H0040: 1.	
HOFMO90	746416	29	113 - 391	2204	Arg-6 to Leu-12, Tyr-18 to Asp-25.		6p21.3	106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000,

									222100, 233100, 235200, 248611, 256550, 256550, 600202, 600261, 601868, 602280, 602475	
HCHND34	762806	30	99 - 164	2205				AR055: 937, AR033: 824, AR061: 791, AR104: 733, AR060: 647, AR053: 378, AR089: 278, AR039: 203, AR096: 149 H0484: 1	17p13.3	113721, 247200, 600059, 601545
HAMGI86	785328	31	388 - 609	2206				L0740: 2, S0356: 1, H0040: 1, H0616: 1 and H0560: 1.	3q23	106165, 110100, 117700, 117700, 150210, 169600, 180380, 180380, 180380, 203500, 276902, 601199,

HLWCN67	794213	32	326 - 691	2207	Tyr-1 to Trp-9, Thr-44 to Leu-49.	L0766: 7, L0794: 6, L0758: 6, L0665: 4, L0439: 4, L0779: 4, H0590: 3, H0328: 3, L0598: 3, L0763: 3, L0666: 3, H0648: 3, L0754: 3, L0362: 3, H0506: 3, H0657: 2, H0661: 2, S0438: 2, L0646: 2, L0803: 2, L0375: 2, L0806: 2, L0809: 2, L0438: 2, L0744: 2, L0740: 2, L0747: 2, L0756: 2, L0731: 2, S0434: 2, L0589: 2, H0713: 1, S0114: 1, H0583: 1, H0255: 1, H0669: 1, H0663: 1, S0222: 1, H0497: 1, L0021: 1, L0022: 1, H0036: 1, H0052: 1, L0163: 1, H0239: 1, H0179: 1, H0615: 1, H0092: 1, H0553: 1, H0163: 1, H0038: 1, H0100: 1, S0440: 1, S0422: 1,			601199, 601199, 601682
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							S0426: 1, UNKWN: 1, L5575: 1, L0644: 1, L0764: 1, L0662: 1, L0651: 1, L0653: 1, L0655: 1, L0661: 1, L0657: 1, L0526: 1, L0783: 1, L0793: 1, L0664: 1, S0374: 1, H0682: 1, H0658: 1, S0328: 1, H0539: 1, S0454: 1, S0406: 1, S0028: 1, L0750: 1, L0752: 1, L0759: 1, S0260: 1, H0445: 1, L0596: 1 and L0597: 1.			
HOFAC09	806819	33	866 - 3	2208			H0415: 3 and H0414: 12			
HRDEL61	824886	34	630 - 824	2209	Lys-1 to Trp-7, Pro-29 to His-41, Thr-48 to Arg-65.		H0124: 1			
HDPOR60	828176	35	2 - 1924	2210	Gln-35 to Ser-43, Thr-52 to Cys-57, Glu-70 to Lys-79, Trp-121 to Lys-126, Ser-152 to Ser-162, Ser-183 to Phe-191, Val-206 to Thr-213, Ile-217 to Asn-222, Arg-237 to Lys-246, Thr-279 to Cys-285,	AR052: 3, AR089: 2, AR039: 2, AR055: 2, AR033: 2, AR053: 2, AR060: 2, AR096: 1, AR061: 1, AR104: 1 H0651: 8, L0744: 7, L0748: 6, H0620: 4, S0360: 3, S0142: 3, L0755: 3, H0638: 2, H0052: 2, H0123: 2,				

					<p>His-336 to Leu-341, Pro-380 to Phe-387, Gln-405 to Asp-410, Thr-581 to Asp-595.</p>	<p>H0083: 2, H0328: 2, H0615: 2, H0039: 2, H0424: 2, H0163: 2, H0040: 2, H0059: 2, L0659: 2, L0519: 2, L0438: 2, S0378: 2, S3012: 2, S3014: 2, L0743: 2, L0750: 2, L0758: 2, L0589: 2, H0656: 1, H0662: 1, S0420: 1, S0358: 1, S0408: 1, H0637: 1, S0222: 1, H0574: 1, S0280: 1, L0021: 1, H0544: 1, H0546: 1, H0545: 1, H0081: 1, H0012: 1, H0266: 1, H0188: 1, H0687: 1, H0288: 1, H0292: 1, H0252: 1, H0673: 1, H0100: 1, H0641: 1, S0144: 1, S0002: 1, L0761: 1, L0643: 1, L0662: 1, L0650: 1, L0774: 1, L0375: 1, L0805: 1, L0776: 1, L0783: 1, L0793: 1, L0665: 1, S0053: 1, H0520: 1, H0658: 1, H0672: 1, H0522: 1,</p>		
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							S0406: 1, H0436: 1, S0037: 1, L0747: 1, L0749: 1, L0779: 1, L0731: 1, S0031: 1 and S0434: 1.			
HPRTS71	828574	36	3 - 458	2211		Pro-117 to Lys-134, Gln-136 to Trp-143.	L0748: 3, H0486: 2, L0599: 2, S0212: 1, S0358: 1, H0596: 1, H0032: 1, H0212: 1, S0002: 1, L0769: 1, L0775: 1, L0527: 1, L0519: 1, S0122: 1, L0754: 1 and L0750: 1.			
HOHBI90	828862	37	1 - 417	2212		Pro-1 to Pro-9, Arg-81 to Glu-87, Gln-114 to Glu-119.	S0250: 2, H0435: 2, S0152: 1 and L0745: 1.	19q13.1	164731, 172400, 172400, 180901, 180901, 221770, 248600, 600918, 602716	
HOHAL47	828872	38	295 - 879	2213		Gly-17 to Leu-40, Ala-47 to Phe-63, Glu-66 to Val-71, Ile-75 to His-92, Glu-112 to Asn-119, Asp-122 to Arg-135, Asn-140 to Phe-152, Asn-160 to Arg-166.	L0741: 3, H0069: 1, S0250: 1, H0032: 1, H0212: 1, L0774: 1, H0522: 1 and L0756: 1.	8p22-p21.3	148370, 238600, 238600, 238600, 238600, 600143, 601385, 602629	

HYASE58	829298	39	2 - 694	2214	Phe-4 to Gln-10.	AR061: 13, AR089: 5, AR096: 5, AR033: 4, AR060: 4, AR052: 3, AR053: 3, AR055: 3, AR104: 3, AR039: 2 H0617: 11, L0748: 5, L0731: 4, H0181: 3, L0775: 3, H0670: 3, L0749: 3, H0656: 2, H0550: 2, H0083: 2, H0087: 2, H0658: 2, H0539: 2, L0747: 2, L0750: 2, H0341: 1, H0661: 1, H0402: 1, S0418: 1, S0360: 1, S0045: 1, H0393: 1, H0587: 1, H0333: 1, H0544: 1, H0009: 1, H0510: 1, H0688: 1, H0644: 1, H0606: 1, H0708: 1, S0366: 1, H0131: 1, L0770: 1, L0540: 1, L0783: 1, L0809: 1, L0789: 1, L0666: 1, L0665: 1, H0689: 1, H0682: 1, H0672: 1, L0743: 1, L0779: 1, L0759: 1, S0434: 1 and S0460: 1.		
HKAAH95	829958	40	2 - 418	2215	Arg-13 to Trp-31,	L0766: 7, L0731: 5,		

Val-61 to Asn-67, Lys-87 to Arg-92, Leu-97 to Asp-109, Ser-129 to Asp-139.					H0542: 5, H0494: 3, L0526: 3, L0750: 3, L0752: 3, L0757: 3, L0588: 3, H0686: 2, T0049: 2, H0657: 2, H0341: 2, S0358: 2, T0008: 2, S0046: 2, L0471: 2, H0169: 2, L0763: 2, L0774: 2, H0519: 2, S0126: 2, S0027: 2, L0590: 2, H0423: 2, H0685: 1, H0650: 1, H0662: 1, H0504: 1, S0376: 1, S0360: 1, H0580: 1, H0431: 1, T0109: 1, H0069: 1, H0098: 1, T0048: 1, S0182: 1, H0023: 1, H0014: 1, H0617: 1, H0413: 1, H0129: 1, H0625: 1, H0132: 1, S0150: 1, H0130: 1, H0633: 1, L0520: 1, L0764: 1, L0648: 1, L0662: 1, L0775: 1, L0806: 1, L0379: 1, L0517: 1, L0540: 1, L0383: 1, L0809: 1, L0519: 1, H0520: 1, H0659: 1,
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							H0658: 1, H0666: 1, S0328: 1, S0380: 1, S0032: 1, L0779: 1, L0758: 1, L0759: 1 and H0445: 1.			
HTTIQ02	829981	41	2 - 391	2216		Ala-96 to Lys-111, Cys-117 to Cys-128.				
HWACG91	830195	42	80 - 631	2217		Ser-2 to Arg-14, Ala-37 to Lys-45, Glu-60 to Leu-68, His-75 to Glu-82, Arg-92 to Ser-99, Gly-105 to Gln-110, Arg-119 to Phe-125.	H0581: 1 and H0521: 1.	6p12	180297, 230450, 263200, 601690	
HUFBX52	830497	43	2 - 1531	2218		Thr-1 to Leu-9, Ser-46 to Leu-56, Glu-117 to Lys-124, Pro-129 to Asp-135, Ala-144 to Gln-150, Gly-156 to Lys-162, Phe-182 to Pro-187, Pro-196 to Gln-201, Lys-217 to Asp-227.	H0124: 8, H0550: 5, H0428: 3, H0586: 2, H0575: 2, H0555: 2, H0294: 1, S0282: 1, H0427: 1, H0196: 1, H0052: 1, H0194: 1, H0086: 1, H0123: 1, H0509: 1, H0684: 1, L0748: 1, L0747: 1, L0756: 1, S0192: 1 and H0506: 1.			
HWLJE49	831453	44	1 - 315	2219		Tyr-34 to His-42, Leu-44 to Leu-49.	S0358: 1, S0376: 1 and H0413: 1.	1p36	118210, 120550, 120570, 120575, 121800,	

								130500, 133200, 155600, 171760, 171760, 185470, 211420, 230350, 255800, 601990, 602023, 602771
HLQBT44	832454	45	590 - 393	2220	Ala-23 to Asp-41.			
HSLGG58	833088	46	92 - 1450	2221	Gln-102 to Arg-109, Gly-177 to Pro-183, Pro-315 to Asn-323, Ser-361 to Cys-369, Ala-381 to Ser-391, Ser-419 to Ser-428.	AR061: 141, AR104: 122, AR055: 119, AR060: 115, AR052: 82, AR033: 78, AR039: 72, AR089: 67, AR053: 38, AR096: 32 L0759: 4, H0617: 3, L0749: 3, L0779: 3, H0253: 2, H0188: 2, H0165: 2, L0769: 2, L0637: 2, L0761: 2, L0665: 2, S0374: 2, H0682: 2, H0659: 2, L0748: 2, H0171: 1, H0685: 1, H0341: 1, H0255: 1, S0420: 1, H0586: 1, H0599: 1,	11q13 102200, 106100, 131100, 131100, 131100, 133780, 147050, 153700, 161015, 164009, 168461, 168461, 168461, 180721, 180840, 191181, 193235,	

								H0510: 1, S6028: 1, H0428: 1, H0424: 1, H0102: 1, H0494: 1, H0560: 1, L0770: 1, L0662: 1, L0774: 1, L0659: 1, L0526: 1, L0518: 1, L0528: 1, L0787: 1, L0666: 1, L0663: 1, H0693: 1, H0658: 1, S0152: 1, S0028: 1, L0439: 1, L0745: 1, L0755: 1, L0758: 1 and L0601: 1.		209901, 232600, 259700, 259770, 600045, 600319, 600528, 601884
HCHBQ33	840756	47	148 - 480	2222	Arg-8 to Gln-19, Arg-25 to Lys-38.			H0483: 1, S0045: 1, S0046: 1, H0486: 1, H0012: 1, H0355: 1, S0364: 1, H0087: 1, H0413: 1, H0366: 1, S0028: 1, L0601: 1 and H0352: 1.	19p	
HDTMK30	840862	48	36 - 353	2223	Arg-2 to Pro-12, Lys-32 to Asn-37, His-75 to Asn-82.			H0486: 1, H0123: 1 and L0756: 1.	7q11.23	116860, 129900, 233700, 600079
HDPFX64	841088	49	320 - 1096	2224				L0757: 6, L0752: 5, L0439: 4, S0150: 2, L0774: 2, S3014: 2, L0747: 2, L0750: 2, S0276: 2, S0212: 1, S0007: 1, H0574: 1,	6pter-q12	

							H0581: 1, H0068: 1, S0036: 1, H0135: 1, T0067: 1, L0065: 1, H0529: 1, H0026: 1, L0762: 1, L0773: 1, L0521: 1, L0766: 1, S0052: 1, H0521: 1, L0748: 1, L0749: 1, L0731: 1, L0759: 1, L0485: 1, L0593: 1 and H0542: 1.			
HODFG71	843485	50	1013 - 951	2225	Asp-1 to Glu-6.		AR089: 3, AR060: 2, AR053: 2, AR096: 2, AR061: 2, AR039: 1, AR033: 1, AR055: 0, AR104: 0 H0615: 1			
HCE3I65	844534	51	2 - 244	2226			S0358: 1, H0052: 1, H0375: 1, H0087: 1, H0380: 1, H0435: 1, H0521: 1, S0390: 1 and L0366: 1.			
HSAVH65	847355	52	2 - 397	2227	Ser-90 to His-96, Arg-127 to Gln-132.		S0114: 2, H0686: 1, L0769: 1, L0644: 1, L0662: 1, L0774: 1, L0666: 1, H0659: 1, L0750: 1 and S0436: 1.			
HBXFT41	847647	53	707 - 817	2228	Glu-14 to Gly-23.		AR096: 2, AR089: 2, AR061: 1, AR039: 0, AR060: 0, AR055: 0,	19p13.3	108725, 120700, 133171,	

							AR033: 0, AR104: 0 L0717: 1, H0438: 1, H0090: 1 and L0749: 1.		136836, 145981, 147141, 164953, 188070, 600957, 601238, 601846, 602216, 602477
HBMCM38	847821	54	373 - 290	2229			L0717: 1 and H0421: 1.		
HACBO42	849064	55	3 - 86	2230	Arg-19 to Pro-25.		L0776: 5, L0439: 4, L0805: 3, H0009: 2, L0438: 2, H0580: 1, S0280: 1, S0346: 1, H0674: 1, L0774: 1, L0384: 1, L0747: 1, L0786: 1, L0780: 1, L0752: 1, L0753: 1, S0031: 1, L0608: 1, S0412: 1 and L0698: 1.		
HODBF86	859572	56	276 - 338	2231			H0328: 2 and H0509: 1.		
HOABP90	859622	57	628 - 735	2232	Asp-23 to Asn-30.		AR089: 2, AR039: 2, AR096: 1, AR053: 1, AR104: 1, AR060: 1, AR061: 0, AR055: 0, AR033: 0 H0252: 1		



HE8UE42	862010	58	3 - 1610	2233	Glu-146 to Pro-151, Ala-231 to Ser-237, Asp-317 to Pro-322, Lys-365 to Gly-371, Phe-459 to Pro-464.	AR089: 8, AR060: 7, AR104: 5, AR096: 4, AR061: 3, AR055: 3 H0659: 5, L0740: 5, L0662: 4, L0771: 3, H0547: 3, H0521: 3, L0759: 3, L0362: 3, H0013: 2, H0597: 2, H0046: 2, H0083: 2, S0214: 2, H0674: 2, H0494: 2, L0517: 2, H0682: 2, L0747: 2, L0779: 2, S0434: 2, H0685: 1, H0583: 1, H0661: 1, H0638: 1, S0420: 1, S0360: 1, H0580: 1, H0438: 1, H0497: 1, H0599: 1, S0010: 1, H0581: 1, H0545: 1, H0457: 1, H0563: 1, L0163: 1, L0055: 1, H0673: 1, H0212: 1, H0591: 1, H0038: 1, H0616: 1, H0488: 1, S0142: 1, S0344: 1, L0763: 1, L0770: 1, L0767: 1, L0766: 1, L0776: 1, L0659: 1, L0782: 1, L0545: 1, H0144: 1,		
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HUSJJ59	862481	59	65 - 316	2234	Pro-1 to Met-6, Thr-47 to Asp-54.	H0672: 1, S0152: 1, S0406: 1, H0627: 1, S0390: 1, L0748: 1, L0777: 1, L0758: 1, S0026: 1, H0665: 1 and H0543: 1.  L0748: 7, L0747: 6, L0769: 5, L0731: 4, S0444: 3, H0083: 3, H0412: 3, L0775: 3, H0670: 3, S0380: 3, L0779: 3, L0758: 3, H0352: 3, H0170: 2, S0007: 2, T0048: 2, H0309: 2, H0081: 2, H0413: 2, H0059: 2, H0641: 2, L0774: 2, L0655: 2, L0526: 2, H0144: 2, H0659: 2, H0710: 2, H0696: 2, S0027: 2, L0757: 2, L0615: 1, S0040: 1, H0295: 1, H0656: 1, S0116: 1, H0341: 1, H0484: 1, H0661: 1, H0664: 1, S0360: 1, S0408: 1, H0637: 1, H0393: 1, H0411: 1, H0392: 1, H0486: 1, H0318: 1, L0738: 1,	8p23.2- p23.1		
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HSSDM07	863515	60	221 - 1090	2235	Gln-1 to Ala-6, Arg-18 to His-24, Ala-80 to Val-88.	H0545: 1, L0471: 1, H0014: 1, T0023: 1, H0181: 1, H0606: 1, H0673: 1, S0366: 1, H0316: 1, H0163: 1, H0087: 1, H0625: 1, S0438: 1, H0633: 1, S0210: 1, L0598: 1, H0517: 1, L0520: 1, L0371: 1, L0772: 1, L0764: 1, L0521: 1, L0549: 1, L0803: 1, L0776: 1, L0540: 1, L0783: 1, L0809: 1, L0529: 1, L0663: 1, L0665: 1, S0374: 1, H0593: 1, S0126: 1, H0711: 1, H0658: 1, H0660: 1, H0648: 1, H0672: 1, S0378: 1, S0404: 1, S0406: 1, S0432: 1, S3014: 1, L0740: 1, L0752: 1, L0590: 1, L0599: 1, H0668: 1, S0026: 1, H0423: 1, H0422: 1, S0424: 1 and H0712: 1.	L0803: 3, H0556: 2, L0769: 2, L0800: 2, H0265: 1, S0134: 1,		
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					Asp-97 to Asp-103, Arg-125 to Tyr-132, Arg-155 to Leu-161, Ser-167 to Asn-172, Gln-182 to Lys-187, Pro-206 to Thr-212, Glu-218 to Ser-228, Ser-236 to Pro-245.	S0358: 1, H0642: 1, H0575: 1, H0135: 1, L0809: 1, L0789: 1, S0330: 1, L0750: 1 and L0777: 1.		
HBCBW52	866444	61	1101 - 1352	2236	Phe-31 to Gln-36, Glu-51 to Ile-79.	L0596: 5, S0114: 2, H0370: 1, H0012: 1, H0620: 1 and S0038: 1.		
HOGAS18	867969	62	352 - 552	2237	Pro-1 to Ser-10, Leu-16 to Gly-21, Thr-43 to Thr-55, Lys-60 to Gly-67.	AR089: 6, AR060: 5, AR039: 4, AR096: 4, AR033: 2, AR055: 2, AR104: 1, AR061: 1, AR053: 0 H0435: 2, H0395: 1 and H0402: 1.		
HHSDL18	869701	63	494 - 628	2238		L0471: 1, S0051: 1, H0040: 1 and L0747: 1.		
HTFMS34	870486	64	2 - 460	2239	Tyr-1 to Trp-6.	L0511: 11, L0499: 6, L0509: 6, L0507: 5, L0502: 5, L0500: 5, L0508: 5, L0751: 5, L0493: 4, L0514: 4, L0504: 3, L0510: 3, L0809: 3, L0748: 3, L0505: 2, L0805: 2, L0515: 2, H0659: 2, H0670: 2, L0752: 2,		

HLDOG81	874506	65	1232 - 798	2240	Ile-81 to Arg-91.	S0424: 2, H0431: 1, H0150: 1, H0039: 1, H0674: 1, H0087: 1, T0041: 1, L0800: 1, L0768: 1, L0789: 1, L0664: 1 and L0749: 1.	1q22-q25	104770, 107300, 107670, 110700, 131210, 136132, 145001, 146790, 150292, 159440, 159440, 159440, 173610, 186780, 191030, 191315, 208250, 233710, 600923, 600995, 601412, 601518, 601652, 602491
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HTXQF81	874608	66	2 - 628	2241	Pro-3 to Arg-8, Gly-34 to Thr-53, Asp-60 to Ser-65, Phe-76 to Lys-81.	L0751: 13, L0771: 10, L0748: 9, L0601: 7, S0356: 6, L0731: 6, L0758: 6, L0769: 4, L0565: 4, L0747: 4, L0756: 4, L0596: 4, H0598: 3, L0766: 3, S0052: 3, S0206: 3, L0750: 3, H0542: 3, H0294: 2, H0657: 2, L0785: 2, S0418: 2, S0358: 2, S0360: 2, H0586: 2, H0587: 2, H0575: 2, H0081: 2, H0620: 2, H0083: 2, H0271: 2, H0622: 2, H0617: 2, H0494: 2, S0142: 2, L0374: 2, L0521: 2, L0381: 2, L0775: 2, L0776: 2, L0659: 2, S0027: 2, L0777: 2, L0759: 2, H0445: 2, L0591: 2, L0604: 2, H0556: 1, T0002: 1, H0222: 1, S0040: 1, H0295: 1, S0218: 1, H0341: 1, S0180: 1, S0212: 1, H0484: 1, H0241: 1, S0420: 1, S0354: 1,	Xp11.23	300047, 300071, 300110, 300600, 301000, 301000, 301830, 309470, 309500, 309610, 309850, 311050, 312060
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HCRNG90	874787	67	87 - 947	2242	Thr-5 to Gly-11, Arg-63 to Lys-73, Gln-92 to Glu-98, Ala-106 to Gly-112.	AR061: 56, AR055: 46, AR104: 43, AR096: 27, AR060: 25, AR089: 17. S0356: 4, L0809: 4, H0551: 2, S0342: 1, S0212: 1, H0544: 1, H0046: 1, L0803: 1, L0774: 1, S0126: 1 and S0152: 1.	6q14-q21	120110, 121014, 136550, 203310, 269920, 601666, 602772
HPWCL64	874891	68	2 - 601	2243	Glu-26 to Ser-33, Thr-82 to Phe-90, Met-107 to Asn- 114, Thr-125 to Glu-131, His-175 to Asp-180.	L0766: 7, L0771: 4, L0752: 4, L0438: 2, L0756: 2, L0777: 2, L0780: 2, H0341: 1, T0115: 1, T0110: 1, L0776: 1, L0783: 1, L0663: 1, S0044: 1, L0744: 1, L0439: 1, L0754: 1, L0750: 1 and L0779: 1.		
HWLMV62	874930	69	2 - 463	2244		H0140: 1, S0116: 1, S0376: 1, S0360: 1, L0695: 1, H0412: 1, H0641: 1, L0662: 1, L0803: 1, L0774: 1, L0527: 1, L0659: 1, L0663: 1, L0664: 1, L0665: 1, H0682: 1, H0435: 1, H0648: 1, L0743: 1, L0731: 1,		



H2MAC06	874931	70	2 - 763	2245	<p>S0434: 1, L0596: 1 and L0362: 1.</p> <p>AR096: 102, AR055: 51, AR089: 46, AR060: 30, AR104: 29, AR061: 19</p> <p>S0406: 23, L0362: 22, S0410: 13, H0593: 12, H0674: 10, S0434: 9, L0764: 8, S0358: 7, L0646: 7, H0506: 6, H0509: 5, L0809: 5, H0435: 5, S0376: 4, L0765: 4, L0382: 4, L0751: 4, H0686: 3, H0252: 3, H0169: 3, H0670: 3, S0330: 3, H0656: 2, S0116: 2, S0132: 2, H0581: 2, H0596: 2, S0314: 2, T0023: 2, H0059: 2, S0440: 2, L0372: 2, L0381: 2, L0659: 2, L0666: 2, H0690: 2, L0750: 2, L0596: 2, L0601: 2, H0171: 1, S0430: 1, H0650: 1, H0663: 1, H0306: 1, S0360: 1, T0104: 1, T0071: 1, H0421: 1,</p>		
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									H0251: 1, H0263: 1, H0204: 1, H0231: 1, H0039: 1, H0622: 1, L0194: 1, L0483: 1, S0368: 1, H0032: 1, H0090: 1, H0040: 1, H0488: 1, H0494: 1, S0352: 1, H0646: 1, L0762: 1, L0800: 1, L0553: 1, L0648: 1, L0775: 1, L0376: 1, L0653: 1, L0540: 1, L0783: 1, L0664: 1, S0053: 1, S0374: 1, H0682: 1, H0684: 1, H0658: 1, H0648: 1, H0672: 1, S0328: 1, S0152: 1, S0432: 1, S0436: 1 and L0600: 1.			
HWLRF06	875093	71	2 - 385	2246	Gly-2 to Gly-7, Glu-9 to Gln-16, Cys-24 to Gly-30, Ala-35 to Ala-45, Ala-55 to Ala-60, Cys-79 to Leu-90, Asp-95 to Asp-103.	S0212: 1 and S0360: 1.						
HODDO41	875352	72	323 - 487	2247	Glu-29 to Asn-42.	H0328: 2						
HCHMQ74	875371	73	3 - 440	2248	Pro-6 to Leu-25, Ser-34 to Arg-53, Pro-71 to Gly-81,	S0330: 2, L0748: 2, H0484: 1, T0114: 1 and L0764: 1.						

HT3AI55	875682	74	1 - 504	2249	Ser-83 to Glu-94..	L0749: 3, S0356: 2, L0766: 2, H0170: 1, H0140: 1, L0770: 1, L0662: 1, L0659: 1, H0682: 1, L0752: 1, L0731: 1, L0758: 1 and H0542: 1.		
HMVBD68	876052	75	130 - 276	2250		L0745: 6, S0360: 4, S0440: 2, H0341: 1, S0212: 1, L0717: 1, H0587: 1, H0497: 1, H0574: 1, H0687: 1, H0428: 1, S0422: 1, L0667: 1, L0645: 1, L0662: 1, L0768: 1, L0649: 1, L0518: 1, H0435: 1, S0380: 1, H0518: 1, L0754: 1, L0746: 1, S0434: 1, L0592: 1 and S0424: 1.		
HOCTA74	876487	76	65 - 292	2251	Lys-1 to Ser-7.	L0748: 5, L0764: 4, L0774: 4, L0758: 3, L0662: 2, L0751: 2, L0608: 2, L0760: 1, S0444: 1, H0331: 1, H0263: 1, H0674: 1, L0770: 1, L0649: 1, L0803: 1, L0775: 1, L0809: 1, L0666: 1,		

							L0663: 1, L0665: 1, S0374: 1, L0565: 1, H0648: 1, L0752: 1, L0596: 1, L0361: 1, S0026: 1 and H0506: 1.			
HISET05	876686	77	433 - 909	2252	Ala-1 to Thr-8, Ala-15 to Pro-23, Pro-68 to Gly-78, Ser-82 to Gly-93, Gly-118 to Ala-135.		L0761: 2, L0800: 1, L0773: 1, L0803: 1 and H0539: 1.			
HCRQM22	876696	78	3 - 332	2253	Arg-1 to Arg-7, Gly-72 to Asp-78, Lys-83 to Gln-90.		S0356: 1, H0318: 1, H0038: 1 and H0040: 1.	12p13	103950, 120580, 131440, 139130, 142680, 176260, 190450, 200990, 216950, 600228, 600414, 600618, 602096	
HLHTC92	877310	79	143 - 478	2254	Met-2 to Leu-12, Ser-16 to Asp-23, Gly-38 to Lys-45.		H0208: 1, H0263: 1, H0412: 1 and L0754: 1.			
H2CAA49	879484	80	1426 - 203	2255	Lys-44 to His-50, Thr-110 to Pro-116, Lys-178 to Gln-183, Pro-196 to Lys-205,					

					Arg-214 to Thr-220, Asp-295 to Leu-301, Pro-316 to Glu-324, Glu-331 to Tyr-336, Gly-347 to Val-354.				
HETKQ94	880545	81	2 - 943	2256	Lys-84 to Gly-98, Asp-126 to Pro-134, Ser-208 to His-218, Tyr-233 to Asp-243, Arg-288 to Pro-295, Gly-303 to Ser-314.				AR052: 3, AR061: 3, AR089: 3, AR096: 2, AR055: 2, AR060: 2, AR053: 2, AR033: 2, AR039: 1, AR104: 1 H0046: 6, L0769: 3, L0748: 3, L0779: 3, L0777: 3, S0358: 2, S0005: 2, H0618: 2, L0662: 2, L0776: 2, H0547: 2, L0439: 2, L0751: 2, L0600: 2, S0040: 1, S0134: 1, S0218: 1, H0650: 1, S0418: 1, S0045: 1, H0549: 1, H0333: 1, H0486: 1, H0253: 1, H0231: 1, H0620: 1, H0014: 1, S0250: 1, H0063: 1, H0087: 1, H0264: 1, H0280: 1, L0640: 1, L0770: 1, L0764: 1, L0768: 1, L0806: 1, L0663: 1, L0664: 1, H0520: 1,

HOFMO23	882466	82	5 - 502	2257	Asn-40 to Val-45.	AR089: 2, AR096: 1, 7 AR060: 1, AR039: 0, AR061: 0, AR033: 0, AR104: 0 H0415: 2	H0539: 1, S0390: 1, S0028: 1, L0747: 1, L0758: 1 and S0424: 1.		
HNTNP58	882787	83	2162 - 2383	2258		AR039: 105, AR096: 91, AR089: 70, AR104: 48, AR033: 48, AR053: 46, AR060: 43, AR055: 18, AR061: 16 S0444: 5, H0436: 5, L0521: 3, H0684: 3, H0659: 3, L0758: 3, S0410: 2, H0250: 2, S0049: 2, L0471: 2, H0266: 2, H0625: 2, S0440: 2, L0805: 2, H0690: 2, L0747: 2, L0779: 2, S0026: 2, H0422: 2, H0170: 1, H0265: 1, H0556: 1, H0686: 1, S0040: 1, S0342: 1, H0294: 1, H0341: 1, H0664: 1, H0638: 1, S0007: 1, S0046: 1, H0351: 1, H0559: 1, H0427: 1,			

							H0421: 1, L0738: 1, H0545: 1, H0083: 1, H0628: 1, H0321: 1, H0412: 1, T0069: 1, H0202: 1, H0494: 1, S0422: 1, L0763: 1, L0769: 1, L0772: 1, L0764: 1, L0657: 1, L0783: 1, L0809: 1, L0519: 1, L0665: 1, H0698: 1, H0691: 1, H0724: 1, H0520: 1, H0547: 1, S0126: 1, H0670: 1, H0660: 1, H0666: 1, H0648: 1, H0134: 1, S0028: 1, L0756: 1, L0752: 1, S0434: 1, L0589: 1, H0136: 1, S0194: 1, S0276: 1, H0543: 1 and H0423: 1.				
HOFNY28	888480	84	3 - 479	2259			AR053: 6, AR089: 6, AR039: 6, AR060: 5, AR104: 4, AR096: 4, AR033: 3, AR055: 3, AR061: 2 H0415: 1	11p15	108985, 186921, 602092		
HE8MQ01	889128	85	2612 - 2478	2260	Ser-8 to Cys-14, Trp-34 to Phe-45.		H0729: 1, H0392: 1, H0013: 1, H0318: 1, H0009: 1, H0328: 1,				

								H0615: 1, T0041: 1, L0662: 1, L0768: 1, L0522: 1, H0436: 1, H0444: 1 and S0308: 1.			
HE2RG21	891139	86	2 - 553	2261	Arg-1 to Asn-14, Lys-47 to Glu-53, Ser-59 to Ser-70, Gln-82 to Gly-93, Glu-100 to Glu-105, Gly-123 to Ser-129, Phe-164 to Lys-173.						
HHENW77	894855	87	3 - 341	2262				AR033: 8, AR104: 6, AR089: 3, AR039: 3, AR060: 2, AR061: 2, AR096: 2, AR053: 0, AR055: 0 H0539: 9, H0052: 5, T0010: 4, L0439: 4, L0769: 3, L0443: 2, H0046: 2, L0456: 2, L0770: 2, L5574: 2, L0803: 2, L0664: 2, L0438: 2, L0751: 2, L0747: 2, S0436: 2, H0542: 2, H0717: 1, S0010: 1, H0744: 1, H0562: 1, H0012: 1, S0388: 1, H0510: 1, H0418: 1, H0617: 1, S0038: 1, L0351: 1,			



							L0762: 1, L0631: 1, L0638: 1, L5565: 1, L0764: 1, L0794: 1, L0649: 1, L0774: 1, L0806: 1, L0655: 1, L0659: 1, L0635: 1, L0382: 1, L0788: 1, L0666: 1, H0520: 1, H0658: 1, H0670: 1, H0660: 1, H0648: 1, H0696: 1, L0742: 1, L0750: 1, L0780: 1, L0752: 1, H0445: 1, H0543: 1, H0423: 1 and H0422: 1.			
HOFNU55	897344	88	705 - 517	2263	Phe-58 to Ala-63.	H0415: 2				
HE8TE40	897862	89	86 - 1165	2264	Ser-50 to Thr-57, Pro-89 to Arg-96, Thr-128 to Glu-137, Cys-150 to Asp-155, Arg-176 to Lys-184, Glu-186 to Cys-201, Ala-238 to Ala-247, Pro-270 to Pro-277, Thr-283 to Thr-295, Leu-329 to Arg-338, Gln-345 to Arg-350.	L0803: 8, S0408: 4, L0804: 3, L0805: 3, L0766: 2, L0779: 2, S0114: 1, H0341: 1, H0662: 1, S0222: 1, H0486: 1, H0013: 1, H0581: 1, H0615: 1, H0038: 1, S0440: 1, L0800: 1, L0521: 1, L0794: 1, L0774: 1, L0806: 1, L0526: 1, L0789: 1, L0790: 1, L0792: 1, L4501: 1, L0663: 1, H0519: 1,				

HNTCH73	900546	90	114 - 1418	2265	Ala-69 to Ser-77, Arg-95 to Lys-102, Gln-117 to Gln-125, Tyr-133 to Arg-140, Pro-157 to Ser-163, Glu-190 to Phe-202, Trp-251 to Asn-258, Gln-270 to Gln-277, Leu-285 to Gly-290, Thr-312 to Arg-337.	S0380: 1, H0696: 1, L0612: 1, L0745: 1, L0756: 1, L0780: 1, L0752: 1 and H0543: 1, AR089: 3, AR096: 2, AR060: 1, AR033: 1, AR104: 1, AR061: 1, AR055: 0, AR039: 0, AR053: 0 H0686: 4, H0574: 3, H0412: 3, S0045: 2, H0024: 2, L0777: 2, L0759: 2, L0603: 2, H0664: 1, S0418: 1, S0358: 1, S0360: 1, H0208: 1, S0046: 1, H0619: 1, H0549: 1, H0632: 1, H0485: 1, H0309: 1, H0085: 1, H0235: 1, L0471: 1, H0620: 1, H0083: 1, S0028: 1, H0622: 1, S0366: 1, S0464: 1, L0065: 1, L0638: 1, L0637: 1, L0764: 1, L0773: 1, L0768: 1, L0774: 1, L0659: 1, H0144: 1, S0374: 1, L0438: 1, H0547: 1, H0519: 1, S0406: 1,	14q22-q23	107970, 112262, 182600, 182870, 182870, 182870, 232700, 602086
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HHFBY53	902534	91	3 - 299	2266	Lys-9 to Ser-15, Pro-29 to Ala-35.	H0627: 1, H0631: 1, L0749: 1, L0779: 1, S0026: 1, H0136: 1 and S0194: 1. AR060: 3, AR033: 1, AR089: 1, AR104: 1, AR096: 0, AR055: 0, AR039: 0, AR061: 0 S0360: 3, H0670: 3, H0556: 2, H0292: 2, H0686: 1, H0685: 1, S0134: 1, S0116: 1, H0662: 1, H0640: 1, S0300: 1, H0586: 1, H0642: 1, L0622: 1, L0586: 1, H0253: 1, H0050: 1, H0057: 1, T0006: 1, L0653: 1, L0657: 1, L0659: 1, L0787: 1, L0666: 1, L0663: 1, H0547: 1, H0659: 1, H0648: 1, H0436: 1, L0748: 1, L0362: 1, L0361: 1, H0653: 1, H0542: 1, H0423: 1 and H0422: 1.	Xq13.1	304040, 305100, 305450, 309605, 312760, 314250, 314580	
HDPIE44	904763	92	1 - 2418	2267	Pro-1 to Arg-13, Pro-71 to Ser-77, Asn-107 to Ser-122, Val-150 to Pro-155,	AR052: 2, AR033: 2, AR096: 2, AR053: 1, AR060: 1, AR104: 1, AR055: 1, AR089: 1,			

					Ser-235 to Lys-241, Arg-349 to Phe-360, Thr-363 to Glu-376, Gln-438 to Thr-443, Leu-466 to Ala-472, Lys-475 to Thr-484, Ser-511 to Val-516, Glu-544 to Ser-550, Tyr-627 to Thr-632, Arg-650 to Lys-658, Asp-683 to Asn- 688, Glu-740 to Glu-746, Tyr-755 to Glu-760.	AR061: 0, AR039: 0 S0358: 3, H0622: 2, H0553: 2, H0090: 2, L0769: 2, L0794: 2, H0547: 2, S0126: 2, L0747: 2, H0265: 1, S0418: 1, H0208: 1, S0045: 1, H0486: 1, H0052: 1, H0046: 1, H0024: 1, H0051: 1, H0375: 1, H0634: 1, H0488: 1, T0042: 1, H0494: 1, H0561: 1, S0438: 1, H0538: 1, L0800: 1, L0803: 1, L0804: 1, L0805: 1, L4501: 1, H0521: 1, H0555: 1, L0779: 1, S0436: 1 and H0506: 1.		
HHSAX10	904783	93	3 - 683	2268	Lys-33 to Arg-46, Met-141 to His-150, Thr-205 to Thr-211, Arg-218 to Ser-226.	AR033: 35, AR104: 29, AR089: 13, AR096: 11, AR060: 9, AR052: 8, AR053: 7, AR055: 6, AR039: 5, AR061: 2 L0745: 7, L0756: 7, L0598: 6, S0346: 5, S0036: 5, L0769: 4, L0777: 4, L0731: 4, S0010: 3, H0052: 3,		



							L0748: 1, L0740: 1, L0780: 1, L0752: 1, L0753: 1, L0759: 1, S0260: 1, L0589: 1 and L0592: 1.			
HPIAX83	906066	94	156 - 2459	2269		Gly-1 to Ser-9, Arg-127 to Arg-138, Tyr-188 to Arg-193, Arg-246 to His-254, Ser-428 to Arg-434, Lys-487 to Lys-493, Gly-515 to Leu-523, Leu-545 to Asn-550, Leu-579 to Ala-588, Lys-631 to Cys-639, Lys-717 to Ser-724.	AR052: 5, AR033: 4, AR061: 3, AR089: 3, AR060: 3, AR055: 3, AR104: 3, AR096: 3, AR053: 3, AR039: 1 L0157: 4, L0777: 4, L0759: 4, H0551: 3, H0144: 3, L0438: 3, S0360: 2, S0036: 2, L0771: 2, L0775: 2, L0659: 2, L0783: 2, S0374: 2, H0658: 2, H0672: 2, L0591: 2, S0342: 1, S0358: 1, H0722: 1, H0427: 1, S0346: 1, H0581: 1, H0327: 1, L0471: 1, S0051: 1, S0003: 1, H0040: 1, H0561: 1, S0440: 1, S0150: 1, L0770: 1, L0764: 1, L0662: 1, L0774: 1, L0526: 1, L0519: 1, L0666: 1, L0663: 1, L0665: 1, L0352: 1,			

								H0547: 1, H0684: 1, H0659: 1, H0648: 1, H0539: 1, S0152: 1, S0028: 1, L0756: 1, L0779: 1, L0731: 1, L0758: 1, S0434: 1, S0436: 1, L0362: 1, H0542: 1 and H0422: 1.			
HOFNG28	908746	95	3 - 401	2270	Gln-76 to Asp-82, Lys-96 to Gln-103.			AR052: 2, AR089: 2, AR055: 1, AR060: 1, AR096: 1, AR033: 1, AR061: 1, AR104: 1, AR053: 0, AR039: 0 H0415: 2			
HOF0B27	911947	96	565 - 1491	2271	Cys-1 to Cys-15, Arg-24 to Gly-31, Lys-37 to Glu-47, Glu-85 to Lys-92, Tyr-102 to Gly-107, Asp-166 to Lys-181, Phe-216 to His-229, Gln-248 to Phe-254, Arg-260 to Cys-267, Ser-285 to Arg-296.			AR053: 2, AR089: 2, AR055: 1, AR060: 1, AR096: 1, AR061: 0, AR039: 0, AR033: 0, AR104: 0 L0758: 6, H0620: 4, L0769: 4, L0777: 4, H0556: 3, S0420: 2, L0770: 2, L0803: 2, L0776: 2, L0659: 2, L0666: 2, S0374: 2, L0748: 2, L0591: 2, H0265: 1, H0685: 1, S0134: 1, H0484: 1, S0354: 1, S0360: 1, S0408: 1, H0580: 1,			

HHBHJ45	913831	97	2 - 1498	2272	Ala-65 to Lys-73, Phe-135 to Arg-140, Glu-174 to Pro-184, Glu-207 to Ala-212, Lys-220 to Asp-231, Glu-236 to Lys-252, Glu-268 to Asn-286, Leu-378 to Ser-384, Gln-421 to Gly-437, Leu-448 to Asp-453, Glu-485 to Trp-495.	H0415: 1, H0587: 1, H0599: 1, H0053: 1, H0052: 1, H0081: 1, H0288: 1, H0428: 1, H0059: 1, H0633: 1, L0766: 1, L0650: 1, L0805: 1, L0655: 1, L0606: 1, L0791: 1, L0664: 1, H0144: 1, L0438: 1, H0547: 1, H0690: 1, H0682: 1, S0378: 1, H0521: 1, L0439: 1, L0740: 1, L0751: 1, L0755: 1, L0595: 1, H0665: 1, S0424: 1 and H0677: 1.	2p14-p16	126600, 126600, 136435, 160980, 203800, 600678
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HHPDV90	914163	98	1188 - 1045	2273	Asn-21 to Lys-39, Leu-43 to Lys-48.	L0626: 1, L0768: 1, L0387: 1, L0766: 1, L0498: 1, L0650: 1, L0774: 1, L0375: 1, L0508: 1, L0655: 1, L0657: 1, L0783: 1, L0663: 1, L0352: 1, H0547: 1, H0593: 1, H0648: 1, S0136: 1, H0522: 1, H0696: 1, L0750: 1, L0758: 1, S0434: 1, L0604: 1 and H0423: 1.		
						AR096: 7, AR089: 6, AR060: 5, AR053: 4, AR104: 4, AR033: 3, AR055: 3, AR061: 2 L0777: 13, L0766: 6, L0803: 4, L0752: 4, L0769: 3, L0794: 3, L0747: 3, L0755: 3, L0805: 2, L0776: 2, L0655: 2, L0659: 2, H0547: 2, L0759: 2, L0596: 2, H0650: 1, S0360: 1, S0010: 1, H0150: 1, H0024: 1, H0051: 1, H0553: 1, H0090: 1, H0412: 1, L0761: 1, L0771: 1,		

						L0363: 1, L0804: 1, H0519: 1, S0122: 1, H0435: 1, H0658: 1, H0648: 1, L0740: 1, L0750: 1, L0757: 1, H0543: 1 and H0423: 1.			
HWMQM47	915068	99	2 - 232	2274	Gly-41 to Gly-53, Gly-65 to Arg-77.	S0444: 5, S0358: 4, S0410: 4, S0406: 4, L0759: 4, L0604: 4, H0686: 3, H0728: 3, H0083: 3, H0659: 3, H0658: 3, L0747: 3, L0581: 3, H0657: 2, H0341: 2, H0484: 2, H0734: 2, H0550: 2, S0222: 2, H0052: 2, T0006: 2, S0364: 2, H0038: 2, H0413: 2, S0422: 2, L0768: 2, L0774: 2, L0775: 2, L0783: 2, H0690: 2, H0670: 2, H0648: 2, S0380: 2, L0757: 2, L0758: 2, L0588: 2, L0608: 2, L0601: 2, S0026: 2, H0170: 1, S0114: 1, H0381: 1, S0282: 1, H0638: 1, S0442: 1, S0360: 1, H0730: 1, H0735: 1,			

HBGNY08	915214	100	429 - 70	2275			S0045: 1, S0046: 1, S0132: 1, H0587: 1, H0559: 1, L0622: 1, H0486: 1, T0114: 1, T0082: 1, S0010: 1, H0421: 1, H0173: 1, H0231: 1, L0738: 1, H0569: 1, H0688: 1, H0428: 1, H0213: 1, H0166: 1, H0674: 1, H0616: 1, H0412: 1, H0625: 1, L0065: 1, S0438: 1, H0509: 1, H0131: 1, H0529: 1, L0763: 1, L0500: 1, L0769: 1, L0638: 1, L0764: 1, L0662: 1, L0766: 1, L0803: 1, L0632: 1, L0655: 1, L0543: 1, L5623: 1, L0664: 1, H0214: 1, H0732: 1, S0028: 1, L0741: 1, L0742: 1, L0754: 1, L0749: 1, L0752: 1, L0731: 1, S0436: 1, H0668: 1, H0136: 1 and H0352: 1.	14q11-q12	160760, 160760, 182600,
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								600243, 600792, 601369, 602086, 602279, 602279
HODGH45	917394	101	567 - 941	2276	Arg-7 to Arg-12, Pro-77 to Asp-82.	H0615: 2 and S0052: 1.		
HWLKE58	917716	102	3 - 536	2277	Pro-1 to Val-11, Asp-25 to Glu-34, Arg-117 to Gln-122, Thr-147 to Arg-152, Glu-160 to Cys-172.	L0731: 7, L0605: 6, L0766: 4, L0655: 4, L0659: 4, L0756: 4, L0803: 3, H0648: 3, L0777: 3, S0358: 2, S0408: 2, L0021: 2, H0014: 2, T0010: 2, L0143: 2, H0641: 2, L0638: 2, L0662: 2, L0794: 2, L0776: 2, L0657: 2, L0809: 2, L0666: 2, L0663: 2, L0751: 2, L0755: 2, L0758: 2, L0588: 2, H0543: 2, H0170: 1, H0657: 1, S0212: 1, H0661: 1, H0663: 1, S0420: 1, S0360: 1, L0717: 1, L0586: 1, L0105: 1, H0318: 1, H0581: 1, H0052: 1, H0309: 1, L0157: 1,		

HRADL40	919433	103	1 - 942	2278	Phe-1 to Arg-7, Arg-40 to Gly-46, Lys-96 to Ser-102, Cys-126 to Ala-131, Asp-260 to Leu-265, Arg-308 to Gly-314.	L0471: 1, H0024: 1, H0354: 1, S0003: 1, H0328: 1, H0615: 1, H0169: 1, H0163: 1, H0090: 1, H0272: 1, T0041: 1, S0440: 1, S0142: 1, S0210: 1, L0372: 1, L0645: 1, L0764: 1, L0651: 1, L0656: 1, L0789: 1, L0665: 1, S0126: 1, H0682: 1, H0435: 1, H0659: 1, S0380: 1, H0518: 1, H0696: 1, L0439: 1, L0740: 1, L0746: 1, L0750: 1, L0779: 1, L0752: 1 and S0260: 1.	16p13.3	141750, 141800, 141800, 141800, 141800, 141850, 141850, 141850, 141850, 141850, 156850, 186580,
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HOFMP73	919895	104	92 - 1129	2279	Ala-24 to Phe-30, Asn-42 to Trp-48, Val-57 to Leu-62, Ser-90 to Gln-96, Lys-104 to Cys-112, Gly-150 to Gly-159, Tyr-180 to Cys-186,	AR060: 2, AR061: 2, AR055: 1, AR089: 1, AR096: 1, AR033: 0, AR039: 0 H0415: 2 and H0414: 1.	8p22	148370, 238600, 238600, 238600, 238600, 600143, 601385,			

						Pro-193 to Asp-210, Pro-220 to Ser-235, Ser-306 to Asp-313, Thr-339 to Ile-346.					602629	
HOFMS02	920253	105	21 - 272	2280		Phe-24 to Glu-48.				H0415: 4		
HUVHD12	921707	106	1 - 666	2281		Tyr-44 to Trp-63, Thr-84 to Thr-90, Gln-111 to Tyr-116.				L0805: 9, L0747: 9, L0770: 8, L0794: 8, L0756: 8, H0271: 7, L0769: 5, L0748: 5, L0750: 5, H0305: 4, L0766: 4, L0804: 4, L0809: 4, H0265: 3, H0052: 3, H0051: 3, H0623: 3, L0803: 3, L0775: 3, H0556: 2, H0441: 2, H0486: 2, H0069: 2, H0050: 2, H0620: 2, S0051: 2, H0416: 2, S0036: 2, H0135: 2, S0002: 2, L0761: 2, L0768: 2, L0666: 2, H0144: 2, L0438: 2, L0439: 2, L0777: 2, S0114: 1, L0785: 1, S0001: 1, S0035: 1, H0402: 1, H0638: 1, H0580: 1, S0045: 1, S0046: 1, S0222: 1, H0333: 1, H0635: 1, H0036: 1,		

HMVDQ41	922191	107	327 - 809	2282	H0581: 1, H0024: 1, H0687: 1, H0068: 1, H0040: 1, H0412: 1, H0056: 1, S0352: 1, L0763: 1, L0796: 1, L5575: 1, L0800: 1, L0375: 1, L0651: 1, L0788: 1, L0790: 1, L0791: 1, L0663: 1, L0665: 1, S0052: 1, S0428: 1, S0216: 1, H0519: 1, H0593: 1, H0658: 1, H0660: 1, H0555: 1, L0743: 1, L0786: 1, L0779: 1, L0758: 1, S0436: 1, L0361: 1, L0366: 1, S0106: 1 and H0423: 1.		
					L0752: 24, L0751: 7, L0748: 6, L0777: 6, L0775: 5, L0742: 5, L0749: 5, S0358: 4, L0776: 4, L0756: 4, S0376: 3, L0757: 3, S0212: 2, S0444: 2, S0010: 2, L0770: 2, L0764: 2, L0773: 2, L0774: 2, H0519: 2, L0743: 2, L0740: 2, L0731: 2, L0758: 2,		



							L0604: 2, L0603: 2, S0298: 1, H0661: 1, S0442: 1, S0354: 1, S0360: 1, S0408: 1, H0632: 1, H0156: 1, H0421: 1, H0196: 1, H0052: 1, L0738: 1, H0009: 1, L0471: 1, H0239: 1, S0003: 1, T0067: 1, H0413: 1, H0059: 1, S0438: 1, S0440: 1, L0768: 1, L0794: 1, L0766: 1, L0803: 1, L0804: 1, L0375: 1, L0806: 1, L0783: 1, S0374: 1, H0659: 1, S0328: 1, S0152: 1, S0404: 1, S0406: 1, S0027: 1, L0439: 1, L0779: 1, L0753: 1, L0755: 1, L0759: 1 and S0242: 1.			
HODGI03	922879	108	3 - 227	2283	Lys-1 to Trp-26, Lys-34 to Ile-42.	H0615: 2				
HODHD14	922955	109	1 - 174	2284		H0615: 3 and H0352: 1.				
HODDC03	925296	110	3 - 311	2285	Lys-10 to Arg-32.	H0328: 1 and H0615: 1.				
HVCAG04	925735	111	1368 - 781	2286			2q21-q22	133510, 133510,		

								165320, 223000, 223000, 256030
HCRCE02	925837	112	31 - 129	2287			L0756: 6, L0776: 2, L0744: 2, H0486: 1, H0327: 1, S0003: 1, H0090: 1, L0761: 1, L0662: 1, L0766: 1, L0518: 1, H0659: 1, H0670: 1, S0406: 1, L0777: 1, L0780: 1, L0605: 1, L0366: 1 and H0423: 1.	
HHERA91	926067	113	2028 - 2399	2288	Ser-59 to Leu-66, Leu-76 to Trp-87, Arg-92 to Gly-105.		AR053: 3, AR089: 3, AR096: 2, AR060: 2, AR033: 2, AR061: 1, AR104: 1, AR055: 0	
HAGDL82	928396	114	2 - 94	2289	Pro-21 to Ala-28.			
HWBDS34	930484	115	3 - 983	2290	Pro-18 to Leu-25, Asp-72 to Ser-82, Pro-97 to Gly-107, Leu-110 to Ser-137.		S0212: 4, H0580: 1, S0045: 1, H0351: 1, S0010: 1, S0003: 1, H0560: 1, S0002: 1 and L0604: 1.	
H6ESA39	933568	116	2 - 1150	2291	Ala-9 to Trp-14.		L0758: 4, H0556: 3, L0751: 3, S0408: 2, H0618: 2, L0768: 2, H0547: 2, H0660: 2, L0754: 2, L0779: 2,	

							H0661: 1, H0370: 1, H0491: 1, H0318: 1, H0566: 1, H0551: 1, T0004: 1, L0435: 1, L0769: 1, L4747: 1, L5566: 1, L0772: 1, L0644: 1, L0764: 1, L0773: 1, L0774: 1, L0775: 1, L0806: 1, L0807: 1, L0659: 1, L0809: 1, L0665: 1, L0743: 1, L0747: 1, L0756: 1, L0777: 1, L0759: 1 and L0601: 1. H0659: 2 and L0777: 2.			
HPCOR06	933678	117	147 - 281	2292	Val-18 to Glu-33.					
HTFNO06	933989	118	2 - 562	2293			L0794: 11, L0511: 11, L0748: 10, L0747: 8, L0499: 6, L0805: 6, L0509: 6, L0507: 5, L0502: 5, L0500: 5, L0766: 5, L0803: 5, L0508: 5, L0809: 5, L0751: 5, L0750: 5, L0752: 5, L0764: 4, L0662: 4, L0649: 4, L0493: 4, L0514: 4, H0670: 4, L0779: 4, H0445: 4, H0657: 3, H0036: 3, S0422: 3,			



									H0039: 1, H0674: 1, L0455: 1, H0087: 1, H0059: 1, T0041: 1, T0042: 1, H0494: 1, H0509: 1, H0646: 1, S0002: 1, L0800: 1, L0644: 1, L0533: 1, L0804: 1, L0650: 1, L0774: 1, L0806: 1, L0655: 1, L0661: 1, L0659: 1, L0782: 1, L0519: 1, L0793: 1, L0664: 1, H0144: 1, L0438: 1, H0520: 1, H0547: 1, H0711: 1, H0660: 1, S0152: 1, S0032: 1, L0754: 1, L0731: 1, L0757: 1, L0592: 1, S0194: 1, H0543: 1, H0422: 1, L0600: 1 and H0352: 1.				
HODFY08	935520	119	130 - 339	2294	Arg-40 to Gln-45.	L0803: 4, H0615: 2, S6028: 1, L0521: 1, L0662: 1, L0794: 1 and L0756: 1.							
HRACK27	935717	120	3 - 1283	2295	Lys-121 to Arg-127.	H0039: 3, L0794: 2, H0650: 1, S0212: 1, S0358: 1, H0441: 1, H0587: 1, S0003: 1, H0494: 1, H0529: 1,							

HRACW30	940639	121	7 - 786	2296			L0766: 1, H0690: 1, H0539: 1, H0696: 1, H0555: 1, L0439: 1, L0779: 1 and S0242: 1. S0358: 250, H0087: 131, S0376: 112, L0751: 93, H0445: 88, H0506: 87, L0599: 69, S0360: 67, H0672: 63, S0328: 63, S0116: 56, S0374: 55, H0597: 47, L0767: 47, L0744: 45, H0555: 44, H0486: 43, H0581: 35, H0040: 29, L0536: 29, L0535: 28, L0659: 26, H0658: 26, L0378: 24, L0546: 24, L0743: 24, H0255: 23, L0768: 23, H0264: 21, H0231: 20, H0085: 18, H0659: 18, L0607: 17, H0063: 16, S0330: 16, H0657: 15, L0785: 15, S0354: 15, H0647: 15, L0762: 15, S0372: 13, L0776: 13, H0421: 12, L0379: 11, S0446: 11, L0600: 11, L0663: 10, L0748: 10, H0595: 10, L0372: 9, L0648: 9, H0663: 8,	2p12	147200, 178640, 216900
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	H0156: 8, H0108: 8, H0039: 8, H0622: 8, L0775: 8, L0375: 8, S0430: 7, H0254: 7, H0252: 7, H0090: 7, H0272: 7, L0655: 7, L0538: 7, L0754: 7, H0444: 7, H0004: 6, H0234: 6, H0188: 6, H0488: 6, L0523: 6, L0664: 6, H0656: 5, L0808: 5, H0662: 5, H0274: 5, H0251: 5, H0235: 5, L0646: 5, L0662: 5, L0526: 5, S0462: 5, H0677: 5, S0384: 5, H0664: 4, H0590: 4, H0591: 4, H0634: 4, H0646: 4, L0763: 4, L0770: 4, S0380: 4, S0432: 4, L0581: 4, H0650: 3, S0356: 3, S0408: 3, H0042: 3, L0774: 3, L0547: 3, L0783: 3, H0684: 3, S0404: 3, L0777: 3, S0434: 3, H0671: 2, S0442: 2, S0444: 2, H0489: 2, H0485: 2, H0427: 2,	
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	H0575: 2, H0037: 2, T0071: 2, H0204: 2, H0232: 2, H0050: 2, H0015: 2, H0271: 2, H0068: 2, S0382: 2, S0464: 2, H0538: 2, L0369: 2, L0627: 2, L0387: 2, L0633: 2, L0657: 2, L0518: 2, L0666: 2, L0665: 2, S0378: 2, L0758: 2, H0343: 2, S0458: 2, UNKWN: 2, H0352: 2, H0186: 1, H0583: 1, L0760: 1, H0125: 1, H0676: 1, H0619: 1, H0549: 1, H0101: 1, H0635: 1, L0021: 1, H0025: 1, H0120: 1, S0182: 1, H0596: 1, H0054: 1, H0086: 1, H0045: 1, H0350: 1, H0014: 1, H0510: 1, H0375: 1, T0023: 1, H0111: 1, H0383: 1, H0113: 1, H0376: 1, H0477: 1, H0487: 1, H0059: 1, T0004: 1, H0396: 1, S0352: 1, S0370: 1, H0641: 1,				
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HOFOC32	941969	122	3 - 1502	2297	Thr-1 to Pro-6, Pro-57 to Thr-63, Arg-110 to Asp-115, Lys-147 to Pro-152, Met-221 to Cys-228, Tyr-254 to Cys-261, Lys-286 to Gly-295, Thr-315 to Gly-325, Ala-351 to Ser-356, Ile-380 to Gln-387, Gly-409 to Arg-419, Val-421 to Val-428.	S0472: 1, H0652: 1, S0326: 1, H0517: 1, L0764: 1, L0765: 1, L0773: 1, L0766: 1, L0499: 1, L0376: 1, L0806: 1, L0527: 1, L0517: 1, L0542: 1, L0384: 1, L0529: 1, H0666: 1, H0579: 1, S0350: 1, H0134: 1, H0214: 1, S0406: 1, H0576: 1, H0478: 1, S0322: 1, L0747: 1, L0779: 1, L0780: 1, L0755: 1, S0394: 1, S0011: 1 and S0456: 1. AR053: 15, AR089: 14, AR033: 10, AR039: 9, AR096: 9, AR060: 9, AR055: 8, AR104: 7, AR061: 6 H0415: 1, H0438: 1, H0486: 1, H0581: 1, S0250: 1, H0616: 1, H0494: 1 and L0659: 1.	20q13.1- 13.3	118504, 118504, 131242, 256540, 600281, 600281, 602235	
HTTDM15	942511	123	2 - 670	2298	Glu-181 to Pro-189, Lys-211 to Arg-217.	AR052: 12, AR055: 11, AR053: 10, AR089:			

						9, AR033: 8, AR096: 8, AR060: 8, AR061: 7, AR104: 5, AR039: 5 L0748: 4, H0441: 2, H0333: 2, H0670: 2, H0660: 2, L0439: 2, L0747: 2, L0601: 2, S0218: 1, H0650: 1, H0656: 1, H0254: 1, H0255: 1, H0013: 1, H0327: 1, H0266: 1, H0070: 1, H0040: 1, T0042: 1, L0809: 1, L0790: 1, L0792: 1, H0689: 1, H0435: 1, H0134: 1, L0741: 1, L0759: 1 and S0042: 1.		
HOVAY63	944031	124	589 - 449	2299	Lys-30 to His-47.	AR039: 13, AR104: 7, AR053: 6, AR089: 6, AR096: 6, AR052: 5, AR060: 5, AR033: 4, AR055: 4, AR061: 3 H0428: 3, H0545: 1 and L0754: 1.		
HDPFY41	946502	125	597 - 2024	2300	Trp-2 to Ile-8, Cys-31 to Asp-39, Glu-54 to Ser-61, Gln-63 to Lys-70, Arg-79 to Arg-85,	AR089: 19, AR096: 18, AR039: 11, AR053: 7, AR060: 6, AR055: 2, AR033: 1, AR061: 1, AR104: 1, AR052:		

					Ser-134 to His-143, Asn-145 to Thr-150, Ser-155 to Thr-168, Asp-198 to His-203, Phe-205 to Asp-234, Pro-238 to Asn-252, Phe-260 to Val-281, Pro-292 to Leu-314, Thr-317 to Ala-322, Lys-335 to His-342.	0 L0439: 4, L0756: 4, H0616: 3, L0766: 3, L0803: 3, L0777: 3, H0662: 2, H0428: 2, L0665: 2, H0547: 2, L0602: 2, L0779: 2, L0731: 2, H0624: 1, S6024: 1, S0114: 1, H0661: 1, S0356: 1, L0717: 1, H0409: 1, H0486: 1, S0003: 1, H0615: 1, S0036: 1, H0163: 1, S0426: 1, L0662: 1, L0649: 1, L0650: 1, L0375: 1, L0806: 1, L0655: 1, L0661: 1, L0659: 1, L0791: 1, L0792: 1, L0666: 1, H0144: 1, H0658: 1, H0672: 1, S0152: 1, H0521: 1, L0754: 1, L0759: 1, L0591: 1, S0011: 1 and H0008: 1.		
HCOPB92	948608	126	99 - 260	2301	Tyr-37 to Ser-47.	H0670: 2		
HBJHO83	948708	127	171 - 389	2302	His-1 to Phe-8.	H0318: 1, H0150: 1 and L0385: 1.		
HWME044	948719	128	3 - 1343	2303	Met-1 to Leu-7, Ile-21 to Gln-33,	H0622: 2, H0422: 2, S0358: 1, H0497: 1,		

					Pro-48 to Glu-53, His-66 to Asn-71, Asp-107 to Glu-118, Val-122 to Leu-133, Gly-185 to Gly-194, Thr-249 to Ser-258, Lys-310 to Lys-328, Arg-367 to Phe-375, Ser-377 to Ala-382, Gln-389 to Trp-395.	H0039: 1, H0056: 1, L0662: 1, H0666: 1, L0596: 1 and S0242: 1.		
HFXJA96	949001	129	1 - 240	2304		AR039: 36, AR052: 33, AR053: 19, AR104: 18, AR096: 17, AR033: 15, AR089: 13, AR061: 11, AR055: 11, AR060: 9 L0749: 3, L0757: 3, H0169: 2, L0769: 2, L0805: 2, L0754: 2, L0759: 2, H0685: 1, S0282: 1, L0717: 1, H0428: 1, H0068: 1, S0422: 1, L0648: 1, L0521: 1, L0794: 1, L0803: 1, L0776: 1, L0656: 1, L0809: 1, L0790: 1, L0665: 1, S0148: 1, L0438: 1, H0659: 1, H0648: 1, L0748: 1, L0747: 1,		

HTLGV19	949574	130	3 - 758	2305	Tyr-10 to Gly-19, Pro-55 to Lys-72, Glu-89 to Ala-95, Asp-107 to Gly-113, Arg-140 to Thr-149.	L0750: 1, L0752: 1, H0543: 1 and S0412: 1. AR061: 4, AR096: 3, AR089: 3, AR055: 3, AR060: 2, AR104: 2, AR039: 2, AR033: 1, AR053: 1 H0555: 2, S0040: 1, S0444: 1, H0619: 1, H0618: 1, H0620: 1, H0284: 1 and H0063: 1.			
HMSAC18	950257	131	1214 - 297	2306		AR052: 11, AR089: 5, AR053: 5, AR096: 4, AR060: 4, AR061: 4, AR039: 4, AR033: 3, AR055: 3, AR104: 3 S0007: 3, L0758: 3, S0382: 2, L0805: 2, L0776: 2, H0666: 2, L0748: 2, S6024: 1, H0341: 1, H0331: 1, H0628: 1, H0038: 1, S0002: 1, L0770: 1, L0662: 1, L0766: 1, L0522: 1, L0659: 1, L0663: 1, H0519: 1, H0659: 1, L0602: 1, L0754: 1, L0749: 1, L0779: 1 and L0731: 1.			
HAPRB43	950475	132	3 - 536	2307	Phe-25 to Lys-31,	AR060: 10, AR055: 6,			

					Pro-60 to Lys-82, Tyr-122 to Asp-131, Lys-137 to Leu-144.	AR096: 6, AR061: 5, AR089: 4, AR033: 3, AR104: 3, AR052: 3, AR039: 3, AR053: 3 L0595: 7, L0803: 4, L0599: 4, S0356: 2, H0652: 2, L0771: 2, L0756: 2, L0779: 2, S0376: 1, H0486: 1, H0013: 1, H0575: 1, H0024: 1, H0356: 1, H0328: 1, L0369: 1, L0642: 1, L0794: 1, L0804: 1, L0809: 1, L0663: 1, L0665: 1, H0670: 1, H0648: 1, S0330: 1, L0752: 1, S0434: 1 and H0506: 1.		
HCCMD55	956895	133	199 - 17	2308	Gln-7 to Lys-23, Gln-49 to Glu-54.	AR055: 3, AR089: 3, AR053: 2, AR060: 2, AR039: 2, AR061: 1, AR033: 1, AR096: 1, AR104: 1, AR052: 0 S0358: 13, H0617: 8, S0444: 4, S0408: 2, S0374: 2, H0484: 1, S0376: 1, S0360: 1, S0410: 1, H0618: 1, H0231: 1, H0615: 1, S0368: 1, H0606: 1,		

							S0438: 1, H0647: 1, L0762: 1, L0772: 1, L0764: 1, L0376: 1, L0493: 1, L0783: 1, L0530: 1, H0659: 1, H0670: 1, H0648: 1, H0672: 1 and L0758: 1.		
HKBAL08	958219	134	108 - 1	2309	Leu-28 to Phe-35.				
HKADF15	960658	135	1 - 1551	2310	Ala-3 to Gly-12, Gly-23 to Ser-46, Arg-91 to Gly-97, Val-105 to Ala-116, Ser-173 to His-180, Gly-190 to Tyr-206, Lys-280 to Lys-285, Arg-347 to Asp-352, Glu-403 to Lys-410, Ser-430 to Phe-442.	L0747: 24, L0754: 18, H0309: 12, H0545: 12, H0031: 12, L0439: 11, H0428: 10, L0755: 10, H0251: 9, S0126: 9, L0744: 8, L0757: 8, L0588: 8, S0360: 7, S0010: 7, S0051: 7, H0252: 7, H0135: 7, L0361: 7, S0212: 6, H0544: 6, H0687: 6, H0494: 6, L0438: 6, H0658: 6, L0748: 6, L0752: 6, L0591: 6, H0662: 5, L0731: 5, L0759: 5, S0192: 5, S0040: 4, S0222: 4, H0081: 4, H0024: 4, H0644: 4, H0124: 4, H0551: 4, L0662: 4, L0659: 4, L0565: 4, L0751: 4, L0750: 4,	10q25.3- q26.2	263700, 601969, 601969	

L0599: 4, S0194: 4, H0486: 3, H0013: 3, T0006: 3, H0628: 3, H0316: 3, H0163: 3, L0770: 3, L0768: 3, L0775: 3, L0809: 3, H0670: 3, H0672: 3, L0603: 3, S0356: 2, S0358: 2, S0046: 2, H0455: 2, H0586: 2, H0587: 2, H0575: 2, H0318: 2, H0123: 2, H0012: 2, H0188: 2, S0250: 2, S0003: 2, S0214: 2, T0023: 2, H0553: 2, T0067: 2, L0351: 2, L0763: 2, L0771: 2, L0774: 2, L0651: 2, L0783: 2, L0666: 2, H0689: 2, H0660: 2, H0651: 2, S0330: 2, S0378: 2, S0206: 2, L0749: 2, S0031: 2, L0590: 2, L0601: 2, H0624: 1, S0342: 1, S0180: 1, S0400: 1, L0005: 1, S0376: 1, H0619: 1, H0645: 1, S0300: 1, L0717: 1, H0406: 1,
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									L0806: 1, L0655: 1, L0657: 1, L0547: 1, L0647: 1, L0788: 1, L0793: 1, L0663: 1, L0664: 1, H0693: 1, H0648: 1, H0704: 1, H0555: 1, S0037: 1, S3014: 1, S0028: 1, L0743: 1, L0740: 1, L0779: 1, L0780: 1, S0260: 1, H0343: 1, L0605: 1, L0366: 1, H0653: 1, H0667: 1, L0096: 1, S0196: 1 and H0506: 1.			
HOGES55	961337	136	107 - 1483	2311	Ser-14 to Ser-23, His-30 to Ser-45, Gly-55 to Arg-67, Leu-71 to Leu-76, Leu-97 to Glu-102, Ser-118 to Pro-129, Pro-159 to Ala-179, Leu-189 to Ser-204.				L0803: 4, L0663: 3, S0420: 2, L0666: 2, H0435: 2, L0748: 2, L0777: 2, S0116: 1, S0132: 1, H0370: 1, L0021: 1, S0422: 1, L0664: 1, H0658: 1, S0328: 1, L0749: 1, S0436: 1 and L0097: 1.			
HKZAJ14	961458	137	135 - 1028	2312	Asn-4 to Lys-9, Arg-37 to Pro-42, Pro-79 to Ile-91, Asp-144 to Trp-155, Asp-189 to Gln-194, Ser-199 to Ser-204.				L0777: 3, L0754: 2, H0689: 1, H0660: 1 and L0755: 1.			

						Leu-208 to Asn-214, Leu-225 to Leu-230, Thr-234 to Lys-245, Asn-251 to Leu-260, Glu-285 to Asp-290.				
HLHAE14	962362	138	1915 - 1826	2313	Gly-15 to Glu-26.		L0748: 2, L0749: 2, H0024: 1 and H0051: 1.			
HBCJN16	965190	139	2 - 346	2314	Pro-15 to Arg-20, Leu-31 to Asp-36, Gly-50 to Glu-65, Phe-74 to Gly-81.					
HCGAF29	965372	140	2 - 1660	2315	Ser-1 to Gly-9, Ile-50 to Thr-55.		H0449: 1, H0393: 1, H0691: 1, H0547: 1 and H0711: 1.	1p12-p13	102770, 188540, 600234, 601414, 601691, 601691, 601691, 601691, 601718, 602094	
HAHEF81	967634	141	716 - 339	2316			L0774: 3, L0809: 2, H0483: 1, H0306: 1, H0599: 1, H0618: 1, H0083: 1, H0644: 1, H0617: 1, H0606: 1, H0087: 1, L0369: 1, L0763: 1, L0643: 1, L0662: 1, L0794: 1, L0804: 1, L0790: 1.			

HBJAB02	967807	142	2 - 1267	2317	Val-35 to Leu-44, Gln-60 to Arg-67, Glu-72 to Asn-84, Glu-131 to Cys-152, Tyr-162 to Gly-175, Gly-184 to Gly-189, Ser-191 to Gly-223, Asp-261 to Arg-266, Asn-270 to Glu-275, Gln-282 to His-287, Tyr-302 to Asn-310, Lys-321 to Arg-327, Lys-330 to Ala-339, Lys-385 to Gly-391, Arg-402 to Lys-422.	L0665: 1, H0658: 1, H0696: 1, L0748: 1, L0780: 1 and L0757: 1.  L0794: 3, H0255: 2, H0318: 2, H0251: 2, L0764: 2, L0628: 2, L0665: 2, H0658: 2, L0361: 2, H0265: 1, H0685: 1, H0657: 1, H0483: 1, S0420: 1, S0358: 1, S0132: 1, S0222: 1, T0082: 1, H0150: 1, H0083: 1, S0214: 1, H0252: 1, H0628: 1, T0041: 1, S0344: 1, H0529: 1, L0520: 1, L0535: 1, L0662: 1, L0387: 1, L0375: 1, L0518: 1, L0666: 1, L0663: 1, H0519: 1, H0670: 1, H0660: 1, L0747: 1, L0777: 1, L0601: 1, S0276: 1, H0423: 1 and H0422: 1.	5q23.3- q31.2	121050, 131400, 153455, 159000, 179095, 180071, 181460, 192974, 192974, 600807, 601596, 602089
HOUCR01	968171	143	2 - 994	2318	Leu-98 to Cys-107, Ala-135 to Ala-142, Pro-233 to Lys-238, Gln-246 to Ala-257, Ser-294 to His-302.	AR033: 7, AR104: 7, AR055: 4, AR060: 3, AR096: 3, AR089: 3, AR061: 3, AR053: 2, AR052: 2, AR039: 1		

HDTIG18	968454	144	334 - 1011	2319	Arg-1 to Gly-8, Pro-10 to Ser-72, Thr-80 to Gln-86, Pro-96 to Ala-102, Ser-137 to Val-146, Leu-207 to Asp-214, Gln-219 to Thr-226.	L0742: 4, S0007: 3, L0439: 3, S0040: 2, H0009: 2, L0769: 2, L5566: 2, L0764: 2, L0740: 2, L0758: 2, S0110: 1, S0010: 1, H0390: 1, S0049: 1, L0157: 1, H0563: 1, H0570: 1, H0123: 1, H0024: 1, H0252: 1, H0615: 1, H0617: 1, H0040: 1, H0509: 1, L0763: 1, L0794: 1, H0144: 1, H0691: 1, L0438: 1, H0547: 1, H0658: 1, H0539: 1, H0696: 1, H0555: 1, L0748: 1, L0750: 1 and L0777: 1.	2q32.1	600258, 602087
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HBLGD30	968949	145	3951 - 1765	2320	Glu-20 to Lys-33, Ser-96 to His-109, Asn-147 to Val-166, Glu-188 to Ala-194, Ala-231 to Lys-240, Ala-267 to Lys-283, Met-291 to Gly-297, Arg-332 to Thr-338, Thr-365 to Tyr-377, Gln-381 to Ser-389, Glu-406 to Lys-417, Arg-462 to Glu-467, Ile-525 to Asp-535, Leu-595 to Glu-615, Phe-667 to Tyr-675, Gln-722 to Gly-729.	L0745: 1, L0746: 1, L0750: 1, L0779: 1, L0752: 1, L0753: 1, L0755: 1, L0757: 1, S0026: 1, S0276: 1 and H0543: 1. H0574: 6, L0362: 6, H0510: 5, L0666: 5, L0665: 4, S0358: 3, H0670: 3, H0013: 2, H0421: 2, H0046: 2, S0438: 2, L0775: 2, L0746: 2, L0756: 2, L0581: 2, H0431: 1, H0004: 1, H0014: 1, H0015: 1, S0338: 1, S0003: 1, L0456: 1, S0440: 1, L0770: 1, L0803: 1, L0525: 1, L0607: 1, L0664: 1, H0593: 1, H0683: 1, H0658: 1, L0755: 1 and S0276: 1.	3q23-q25	106165, 110100, 117700, 117700, 150210, 169600, 180380, 180380, 180380, 203500, 222900, 276902, 601199, 601199, 601199, 601682
HFIHK04	969387	146	580 - 825	2321	Pro-16 to Pro-21, Ser-33 to Gly-38.	L0747: 5, H0318: 3, H0617: 3, L0749: 3, L0776: 2, H0483: 1, H0615: 1, H0039: 1, L0055: 1, L0769: 1, L0521: 1, L0766: 1, L0375: 1, L0809: 1,		

							H0520: 1, H0689: 1, H0672: 1, S0152: 1, L0750: 1, L0608: 1 and S0194: 1.			
HODIL24	969841	147	7 - 798	2322			H0615: 6, L0766: 3, L0779: 2, L0777: 2, H0556: 1, S0222: 1, H0438: 1, H0492: 1, H0013: 1, H0156: 1, H0052: 1, H0561: 1, S0440: 1, S0150: 1, H0538: 1, L0369: 1, L0371: 1, L0769: 1, L0805: 1, L0659: 1, L0647: 1, S0374: 1, H0518: 1, S0152: 1, L0740: 1, L0756: 1, L0755: 1, L0731: 1, H0445: 1, S0026: 1 and H0653: 1.			
HE8NQ16	970046	148	2 - 1105	2323			L0439: 6, L0756: 5, L0779: 5, L0777: 5, L0759: 5, L0776: 4, H0620: 3, L0747: 3, L0755: 3, S0442: 2, S0358: 2, H0615: 2, L0770: 2, L0768: 2, H0144: 2, S0374: 2, L0748: 2, L0740: 2, L0745: 2, L0750: 2,			

HOFMS34	973010	149	27 - 1019	2324	Gly-9 to Gln-19, Pro-36 to Gly-41, Ala-112 to Ala-123, AR096: 2, AR052: 1, Asp-151 to Arg-157, AR061: 1, AR055: 1, Ala-199 to Asp-211.	AR053: 2, AR033: 2, AR089: 2, AR060: 2, Ala-112 to Ala-123, AR096: 2, AR052: 1, Asp-151 to Arg-157, AR061: 1, AR055: 1, Ala-199 to Asp-211. H0415: 5			L0599: 2, S0134: 1, S0222: 1, H0642: 1, H0013: 1, H0156: 1, S0010: 1, H0052: 1, H0596: 1, H0083: 1, S6028: 1, H0687: 1, S0250: 1, S0003: 1, S0214: 1, H0428: 1, H0622: 1, H0644: 1, H0038: 1, H0269: 1, T0042: 1, H0646: 1, L0369: 1, L0762: 1, L0796: 1, L0800: 1, L0662: 1, L0794: 1, L0774: 1, L0775: 1, L0659: 1, L0783: 1, L0793: 1, H0683: 1, H0435: 1, H0648: 1, H0672: 1, S0328: 1, H0539: 1, S0380: 1, H0696: 1, S0044: 1, H0631: 1, L0749: 1, L0753: 1, L0757: 1, S0434: 1 and L0485: 1.		
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HOFOB11	973505	150	3 - 293	2325	Pro-70 to Cys-76.	AR096: 11, AR089: 6, 1p31 AR053: 6, AR060: 5, AR104: 5, AR033: 3, AR039: 3, AR055: 2, AR061: 1 H0415: 2	180069, 180069, 180069, 201450, 248610, 600309, 601676, 602522
HTLHN94	974667	151	306 - 812	2326	His-8 to Gly-18.	AR039: 26, AR055: 18, AR033: 15, AR053: 14, AR052: 13, AR089: 12, AR060: 11, AR104: 11, AR096: 10, AR061: 8 H0521: 185, H0522: 75, H0046: 37, S0360: 25, H0580: 24, H0585: 22, H0575: 22, L0599: 21, H0657: 16, H0255: 15, H0486: 15, L0664: 15, H0641: 14, S0376: 12, H0581: 12, L0751: 12, H0650: 11, H0087: 10, S0002: 10, H0638: 9, H0264: 9, H0509: 9, L0769: 9, H0445: 9, H0656: 8, S0358: 8, H0617: 8, L0748: 8, L0750: 8, L0659: 7, H0658: 7, H0672: 7,	

	H0134: 7, H0555: 7, S0031: 7, H0586: 6, H0318: 6, H0031: 6, H0040: 6, H0561: 6, S0344: 6, L0372: 6, H0682: 6, L0731: 6, H0560: 5, L0657: 5, S0328: 5, L0752: 5, S0116: 4, H0550: 4, H0036: 4, L0375: 4, L0806: 4, L0776: 4, L0666: 4, H0648: 4, L0755: 4, L0758: 4, H0506: 4, S0354: 3, H0250: 3, H0069: 3, H0427: 3, H0597: 3, H0271: 3, H0090: 3, H0272: 3, L0662: 3, L0794: 3, L0766: 3, L0651: 3, L0540: 3, L0546: 3, L0665: 3, S0330: 3, L0743: 3, L0362: 3, H0265: 2, T0002: 2, H0141: 2, H0341: 2, H0671: 2, H0402: 2, H0637: 2, S0132: 2, H0574: 2, S0280: 2, H0156: 2, H0042: 2, H0618: 2, H0309: 2, H0050: 2,				
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HLDRT31	975754	152	37 - 585	2327			AR061: 16, AR060: 7, AR039: 5, AR089: 4, AR096: 3, AR104: 2, AR033: 1, AR055: 1, AR053: 1 H0199: 2, H0246: 2, H0197: 1, H0510: 1 and H0144: 1.			
HWLHW86	975771	153	5 - 1186	2328	Ser-1 to Gly-16, Pro-26 to Gly-31, Thr-40 to Gln-46, Pro-59 to Ser-66, Pro-69 to Ser-80, Val-120 to Cys-126, Lys-157 to Gly-166, Gln-169 to Tyr-175, Arg-205 to Glu-212, His-230 to Leu-242, Gln-277 to Asn-285.		AR060: 12, AR039: 8, 4q AR089: 7, AR096: 1, AR061: 1, AR033: 0, AR053: 0, AR055: 0 S0408: 32, S0444: 21, S0442: 20, S0360: 20, L0665: 19, S0406: 18, S0436: 18, S0358: 17, L0666: 17, S0440: 15, L0752: 13, L0663: 11, S0376: 10, S0374: 10, L0662: 9, L0646: 8, H0672: 8, L0596: 8, L0601: 8, S0354: 6, L0664: 6, H0648: 6, L0777: 6, L0774: 5,			

S0404: 5, S0356: 4, L0771: 4, L0657: 4, H0659: 4, L0372: 3, L0522: 3, L0776: 3, L0659: 3, H0658: 3, H0696: 3, L0750: 3, L0779: 3, L0608: 3, H0615: 2, H0428: 2, H0169: 2, H0090: 2, H0059: 2, H0646: 2, L0640: 2, L0764: 2, L2269: 2, H0593: 2, H0670: 2, L0754: 2, L0759: 2, S0434: 2, L0599: 2, L0362: 2, H0506: 2, H0624: 1, H0686: 1, L0778: 1, H0661: 1, H0662: 1, H0489: 1, H0409: 1, H0592: 1, T0060: 1, H0575: 1, H0590: 1, H0596: 1, L0040: 1, H0597: 1, H0046: 1, H0012: 1, H0620: 1, H0014: 1, S6028: 1, H0328: 1, H0039: 1, H0622: 1, L0483: 1, H0494: 1, H0647: 1, H0538: 1, L0502: 1, L0763: 1, L0373: 1,					
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HOFNM53	976051	154	3 - 1589	2329	Val-9 to Glu-22, Leu-48 to Gln-53, Ser-64 to Asn-74, Pro-76 to Arg-83, Thr-118 to Gly-126.		AR104: 6, AR053: 5, AR089: 5, AR033: 5, AR039: 4, AR055: 4, AR060: 4, AR096: 3, AR061: 1, AR052: 0 H0415: 4		
HDPSE86	976207	155	1 - 1344	2330	Pro-30 to Thr-35, Ala-81 to Pro-86, Gly-140 to Thr-151, Ala-157 to Gly-162, Arg-195 to Val-209, Arg-236 to Ser-245.		AR053: 17, AR089: 16, AR033: 12, AR060: 12, AR039: 12, AR096: 10, AR104: 9, AR055: 9, AR061: 7 H0424: 2, H0689: 2, H0318: 1, S0036: 1, L0665: 1, H0684: 1, H0521: 1 and H0555: 1.	12q23-q24	113100, 124200, 147440, 158590, 160781, 163950, 163950, 235800, 251170, 276710, 600175, 601517
HHFOE18	976216	156	1 - 1275	2331	Thr-1 to Thr-33.		L0659: 7, H0486: 4,		

						L0748: 4, L0747: 4, H0328: 3, L0800: 3, H0050: 2, H0135: 2, H0059: 2, L0771: 2, L0790: 2, L0750: 2, L0777: 2, L0759: 2, H0624: 1, H0170: 1, H0717: 1, H0663: 1, L0005: 1, H0619: 1, H0645: 1, H0455: 1, H0013: 1, S0010: 1, S6028: 1, H0039: 1, H0031: 1, H0598: 1, H0102: 1, L0598: 1, L0763: 1, L0761: 1, L0803: 1, L0791: 1, L0666: 1, L0565: 1, S0126: 1 and L0749: 1.			
HHFNIH27	976968	157	11 - 604	2332	Asp-1 to Ser-12, Glu-15 to Ala-29, Glu-40 to Lys-56, Ile-131 to Asp-150, Leu-177 to Asp-183.	AR052: 169, AR096: 135, AR053: 92, AR089: 91, AR060: 83, AR033: 59, AR104: 54, AR039: 40, AR061: 37, AR055: 29 H0341: 9, H0657: 7, S0358: 4, H0251: 4, H0428: 4, L0748: 4, L0750: 4, H0445: 4, S0116: 3, H0333: 3, H0318: 3, T0041: 3,	12q23-q24.1	124200, 147440, 160781, 181405, 235800, 261600, 261600, 600175, 601406, 601620, 601621	



				S0126: 3, H0670: 3, H0648: 3, H0543: 3, H0170: 2, S0376: 2, S0360: 2, S0007: 2, H0619: 2, H0393: 2, H0486: 2, H0156: 2, H0596: 2, H0046: 2, H0014: 2, H0059: 2, T0004: 2, H0647: 2, L0521: 2, L0375: 2, L0517: 2, H0659: 2, H0658: 2, H0660: 2, H0672: 2, S0380: 2, H0521: 2, S0044: 2, H0576: 2, L0747: 2, L0485: 2, L0595: 2, L0362: 2, S0026: 2, H0624: 1, S0180: 1, S0212: 1, H0663: 1, H0305: 1, H0459: 1, S0418: 1, S0420: 1, S0045: 1, S0046: 1, H0351: 1, S0222: 1, H0392: 1, H0249: 1, H0643: 1, H0331: 1, H0618: 1, T0071: 1, H0581: 1, H0421: 1, H0263: 1, L0040: 1, H0546: 1, H0009: 1, H0123: 1, H0050: 1,	
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L0471: 1, H0012: 1, H0023: 1, H0015: 1, H0083: 1, H0510: 1, S0336: 1, H0687: 1, H0290: 1, H0028: 1, S0250: 1, S0022: 1, H0615: 1, T0006: 1, H0030: 1, H0169: 1, S0364: 1, H0068: 1, S0366: 1, H0376: 1, H0598: 1, H0090: 1, H0040: 1, H0412: 1, T0069: 1, L0564: 1, T0042: 1, H0494: 1, H0359: 1, H0646: 1, S0422: 1, H0026: 1, L0520: 1, L0625: 1, L0764: 1, L0767: 1, L0806: 1, L0655: 1, L0657: 1, L0809: 1, L0519: 1, L0789: 1, L0664: 1, S0374: 1, L0565: 1, H0689: 1, H0435: 1, H0414: 1, H0666: 1, H0539: 1, S0378: 1, S0004: 1, S0146: 1, S0027: 1, S0028: 1, S0206: 1, L0741: 1, L0439: 1, L0740: 1, L0754: 1,					
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HMMBZ81	977264	158	551 - 357	2333				H0444: 1			
HSLGF32	977704	159	2 - 301	2334	Arg-1 to Arg-45, Glu-47 to Arg-77, Asp-79 to Ser-100.			L0748: 6, L0777: 4, H0685: 2, L0599: 2, H0575: 1, S0010: 1, H0421: 1, H0169: 1, H0264: 1, H0413: 1, L0769: 1, L0646: 1, L0803: 1, L0653: 1, L0776: 1, L0792: 1, H0659: 1, H0658: 1, S3014: 1, S0028: 1, L0751: 1 and L0779: 1.			
HEEAH23	978593	160	1 - 123	2335				H0549: 1, S0222: 1, H0266: 1, H0428: 1 and S0370: 1.			
HODFU73	978812	161	179 - 652	2336	Gly-85 to His-97, Gly-125 to Gly-130.			L0519: 5, L0756: 5, L0731: 5, L0665: 4, L0717: 3, S0474: 3, L0794: 3, L0663: 3, H0547: 3, H0682: 3,	2p14-p13	203800, 602404	

HNBUA49	978998	162	1399 - 353	2337				H0660: 3, H0615: 2, H0551: 2, L0650: 2, L0805: 2, L0659: 2, L0809: 2, L0666: 2, L0439: 2, L0740: 2, L0745: 2, L0750: 2, H0352: 2, H0411: 1, H0431: 1, H0590: 1, L0738: 1, H0015: 1, H0071: 1, S6028: 1, H0328: 1, H0688: 1, H0039: 1, H0622: 1, H0591: 1, H0264: 1, S0422: 1, L0638: 1, L0662: 1, L0803: 1, L0375: 1, L0657: 1, L0791: 1, L0664: 1, H0144: 1, L0352: 1, H0690: 1, H0658: 1, H0670: 1, H0666: 1, L0754: 1, L0746: 1, L0777: 1, L0755: 1 and S0412: 1.		
								L0754: 3, L0591: 3, H0659: 2, L0748: 2, H0663: 1, H0662: 1, S0354: 1, S0376: 1, L0021: 1, S6028: 1, H0616: 1, T0067: 1, S0422: 1, L0520: 1,		

HVVDU73	979346	163	2 - 1603	2338	Val-1 to Gly-7, Ala-10 to Ser-15, Ala-32 to Ala-75, Pro-93 to Asp-101, Arg-107 to Gln-117, Glu-133 to Ser-138, Ile-157 to Pro-170, Arg-181 to Glu-192, Ser-200 to Glu-209, Glu-239 to Val-249, Glu-287 to Glu-305, Ala-320 to Arg-328, Pro-363 to Arg-389, Lys-396 to Leu-406, Arg-433 to Gly-442, Ser-470 to Asn-481, Arg-498 to Ser-528.	L0769: 1, L0764: 1, L0766: 1, L0653: 1, L0659: 1, L0529: 1, L0666: 1, L0663: 1, L0664: 1, L0665: 1, L0565: 1, H0648: 1, H0522: 1, H0436: 1, L0439: 1, L0756: 1, L0755: 1, L0758: 1, H0445: 1 and H0543: 1.  H0046: 9, H0494: 6, S0358: 4, H0622: 2, H0662: 1, S0356: 1, H0549: 1, H0575: 1, H0081: 1, H0646: 1, L0761: 1, L0800: 1, H0672: 1, S0152: 1, H0521: 1, H0555: 1, L0748: 1, L0777: 1 and L0601: 1.	1q25.1- q32.3	145001, 145260, 150292, 208250, 600759, 600995, 601652, 601975
HHESX72	979468	164	136 - 480	2339	Tyr-28 to Ser-34, Leu-76 to Gln-83.	L0748: 3, S0380: 2, H0581: 1, H0477: 1, S0126: 1 and H0543: 1.		

HOCPY88	979547	165	136 - 939	2340	Arg-38 to Lys-44, Lys-65 to Pro-72, Pro-96 to Tyr-102, Val-117 to Tyr-124, Leu-140 to Gly-154, Pro-167 to Trp-174, Val-180 to Tyr-185, Pro-191 to Tyr-196, Pro-199 to Thr-204, Gln-238 to Ala-244, Val-255 to Val-262.	H0553: 2, H0519: 2, L0731: 2, S0192: 2, S0134: 1, H0306: 1, H0375: 1, H0292: 1, S0144: 1, L0794: 1, L0766: 1, L0775: 1, L0809: 1, H0144: 1, S0126: 1, H0660: 1, H0672: 1, H0521: 1 and S0260: 1.	2p13	203800, 602404
HOGDC64	979666	166	164 - 769	2341		H0521: 53, S0002: 17, L0809: 13, S0360: 12, H0522: 12, H0580: 11, L0766: 11, S0426: 10, S0278: 9, H0618: 9, L0758: 8, H0556: 7, H0581: 7, L0439: 7, L0731: 7, H0253: 6, H0038: 6, L0771: 6, L0794: 6, L0805: 6, L0518: 6, L0666: 6, L0748: 6, H0553: 5, L0764: 5, L0659: 5, L0779: 5, H0265: 4, H0650: 4, S0408: 4, S0344: 4, L0667: 4, L0776: 4, L0759: 4, L0596: 4, L0604: 4, L0362: 4, H0486: 3,	17q21-q23	106180, 109270, 109270, 109270, 109270, 109270, 109270, 113705, 113705, 138700, 139250, 144200, 148065, 148066, 148066, 148067, 148067, 148069, 148080, 150200,

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HSIEA14	980139	167	456 - 683	2342	Pro-46 to Lys-53.		AR039: 4, AR096: 1, AR053: 1, AR060: 1, AR089: 1, AR033: 1, AR061: 1, AR055: 0, AR104: 0 H0036: 1		
HSPSY43	980269	168	883 - 1659	2343	Leu-32 to Glu-41, Asn-67 to His-72, Glu-96 to Thr-105, Phe-122 to Leu-130, Glu-151 to Glu-157, Val-165 to Gly-171, Arg-185 to Ile-196, Ser-205 to Leu-216, Leu-220 to Ala-225, Tyr-235 to Leu-243.	L0439: 17, H0013: 16, T0010: 13, S0010: 10, H0052: 10, L0754: 10, S0222: 9, L0743: 8, S0001: 7, H0644: 6, H0144: 6, L0662: 5, L0659: 5, H0547: 5, H0658: 5, L0742: 5, L0591: 5, H0657: 4, S0007: 4, H0441: 4, L0351: 4, S0344: 4, L0741: 4, S0046: 3, H0351: 3, H0575: 3, S0346: 3, H0178: 3,	9q33-q34	125270, 125270, 128100, 137350, 146150, 191100, 215700, 223360, 223900, 253800, 253800, 268900, 601850	

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HSXBH24	981029	169	220 - 2199	2344	Ser-11 to Gly-21, Cys-47 to Leu-61, Ser-82 to Tyr-88, Cys-182 to Tyr-187, Trp-268 to Asp-285.	AR089: 2, AR060: 2, AR033: 2, AR096: 1, AR061: 1, AR039: 0, AR104: 0, AR055: 0, AR053: 0 H0261: 1, H0370: 1, H0559: 1, H0013: 1,		

							H0510: 1, S0036: 1, H0100: 1, L0771: 1, L0659: 1, H0666: 1, L0779: 1 and L0758: 1.			
HOF6E61	981108	170	2 - 505	2345		Lys-10 to Gly-21.	H0415: 1 and H0414: 1.			
HCFOF82	981272	171	2 - 901	2346		Trp-1 to Lys-6.	AR096: 3, AR033: 2, AR053: 2, AR089: 2, AR039: 2, AR060: 2, AR104: 1, AR061: 1, AR055: 1, AR052: 0 L0766: 3, L0777: 3, L0768: 2, L0748: 2, L0757: 2, L0759: 2, L0596: 2, T0060: 1, S0010: 1, H0251: 1, H0594: 1, S0214: 1, H0328: 1, H0615: 1, H0428: 1, H0674: 1, H0040: 1, H0412: 1, L0763: 1, L0803: 1, L0653: 1, L0666: 1, L0664: 1, S0028: 1, L0751: 1, H0423: 1 and H0506: 1.			
HOCMT79	981309	172	421 - 1431	2347		Thr-1 to Asp-12, Arg-27 to Asp-35, Arg-84 to Asp-89, Leu-93 to Thr-99, Pro-104 to Lys-113,	H0618: 12, H0052: 6, L0439: 6, H0253: 5, L0665: 4, H0013: 3, L0766: 3, L0775: 3, L0664: 3, L0742: 3,	5p		

					<p>Thr-129 to Asp-137, Leu-265 to Thr-288.</p>	<p>L0748: 3, L0758: 3, H0556: 2, H0685: 2, S0040: 2, H0069: 2, H0599: 2, H0581: 2, H0327: 2, H0545: 2, H0571: 2, H0617: 2, H0135: 2, H0494: 2, H0509: 2, L0783: 2, L0809: 2, L0438: 2, H0660: 2, L0754: 2, L0599: 2, H0422: 2, H0265: 1, L0785: 1, H0484: 1, S0418: 1, S0420: 1, H0580: 1, S0045: 1, H0392: 1, H0600: 1, H0574: 1, H0256: 1, L0622: 1, H0486: 1, H0250: 1, H0575: 1, H0251: 1, H0544: 1, H0050: 1, T0010: 1, H0188: 1, H0213: 1, H0038: 1, H0616: 1, H0087: 1, H0561: 1, S0382: 1, H0132: 1, L0762: 1, L0770: 1, L0638: 1, L0761: 1, L0648: 1, L0662: 1, L0803: 1, L0651: 1, L0806: 1, L0659: 1, L0791: 1,</p>		
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HKAEI03	981319	173	1 - 405	2348			H0620: 1, H0615: 1, H0063: 1 and H0494: 1.	1p11.1-13.1	102770, 201810, 601414, 601691, 601691, 601691, 601691, 601718, 602094	
HOCPO31	981593	174	330 - 470	2349			H0087: 2, H0660: 1 and H0672: 1.			
HAOTG88	981606	175	229 - 2	2350	Asn-1 to Lys-6.		H0686: 1, H0685: 1 and S0053: 1.			
HVCAH21	981768	176	2 - 616	2351	Ala-1 to Ala-12, Cys-57 to Tyr-65, Glu-76 to Asp-82, Arg-100 to Pro-105, Asp-110 to Pro-126, Cys-129 to Ala-139, Lys-147 to Pro-172, Pro-182 to Asp-188, Arg-199 to Met-205.	L0751: 6, L0588: 6, L0748: 5, L0758: 5, S0007: 4, S0438: 4, L0763: 4, L0776: 4, L0759: 4, L0604: 4, L0594: 4, L0362: 4, S0358: 3, S0410: 3, H0575: 3, H0617: 3, S0440: 3, L0775: 3, L0809: 3, S0374: 3, L0742: 3, H0656: 2.	8q13.3	214400, 600415, 601653, 601653, 602476		

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HFPCK56	981812	177	1946 - 1818	2352		AR096: 12, AR052: 11, AR053: 10, AR033: 10, AR089: 9, AR055: 9, AR104: 8, AR060: 8, AR061: 5, AR039:				

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HAOSJ58	981859	178	3 - 482	2353	His-1 to Val-14.	L0740: 4, L0749: 4, L0794: 3, L0766: 3, H0686: 2, L0662: 2, L0747: 2, H0663: 1, S0420: 1, S0358: 1, L0717: 1, H0013: 1, L0638: 1, L0761: 1, L0364: 1, L0803: 1, L0657: 1, L0526: 1,						

							L0787: 1, L0665: 1, L0438: 1, L0759: 1 and L0592: 1.		
HOPJT48	981862	179	348 - 217	2354			H0685: 1, L0623: 1 and H0684: 1.		
HCFAY61	981914	180	3 - 1091	2355		Arg-1 to Ile-7, Gly-22 to Lys-42, Ser-52 to Glu-59, Leu-80 to Asp-87, Lys-107 to Thr-115, Trp-123 to Glu-131, Tyr-148 to Glu-155.	L0766: 5, L0747: 4, L0750: 4, L0777: 4, S0046: 2, H0486: 2, L0769: 2, L0805: 2, H0547: 2, L0749: 2, L0752: 2, L0759: 2, L0590: 2, S0026: 2, H0624: 1, H0686: 1, H0341: 1, S0358: 1, S0360: 1, S0045: 1, H0549: 1, H0587: 1, L0157: 1, H0566: 1, H0057: 1, H0320: 1, H0051: 1, H0687: 1, S0003: 1, H0428: 1, H0090: 1, L0794: 1, L0774: 1, L0806: 1, L0653: 1, L0655: 1, L0657: 1, L0659: 1, L0791: 1, L4501: 1, L0666: 1, L0664: 1, H0701: 1, H0672: 1, S0328: 1, H0539: 1, S0380: 1, H0478: 1, L0780: 1, L0755: 1,		

HPDWN44	981956	181	114 - 659	2356	Gln-79 to Tyr-86, Ile-96 to Ser-101, Pro-119 to Ser-126, Gln-162 to Gln-167.	L0731: 1, L0758: 1, H0595: 1, L0592: 1, H0653: 1, H0665: 1 and H0422: 1.  H0150: 26, S0003: 24, 14 S0144: 14, S0278: 12, S0344: 12, L0748: 12, S0358: 10, H0046: 10, H0620: 10, S0214: 10, L0740: 9, H0521: 8, L0588: 8, H0545: 7, L0754: 7, H0575: 6, H0494: 6, S0126: 6, H0662: 5, H0031: 5, S0142: 5, L0752: 5, S0360: 4, H0309: 4, H0012: 4, H0687: 4, H0163: 4, H0038: 4, H0040: 4, H0672: 4, L0744: 4, L0755: 4, L0758: 4, L0599: 4, S0212: 3, H0580: 3, H0550: 3, T0082: 3, H0544: 3, H0024: 3, H0266: 3, H0428: 3, H0616: 3, T0067: 3, L0519: 3, L0532: 3, H0689: 3, S0380: 3, L0731: 3, S0026: 3, H0624: 2, S0040: 2,		
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HOVJY54	982032	182	16 - 372	2357	Gly-1 to His-11, Pro-26 to Ser-34, Gly-50 to Glu-67, Gly-86 to Pro-91.	H0448: 1, S0432: 1, S3014: 1, S0028: 1, S0032: 1, L0751: 1, L0753: 1, S0031: 1, H0444: 1, L0596: 1, L0589: 1, L0362: 1, L0603: 1, S0011: 1, H0668: 1, H0653: 1, H0667: 1, S0276: 1, H0542: 1, H0423: 1, H0422: 1, S0458: 1, H0506: 1 and H0293: 1.	7q32	180105, 190900, 222800, 246900
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HILDOG74	982042	183	1 - 756	2358	Pro-37 to Ser-45, Asp-64 to Thr-69, Asp-151 to Gln-157, Arg-191 to Lys-196.	H0510: 1	17p13	138190, 254210, 271900, 600179, 600977, 601202, 601777				
HE8MM52	982197	184	19 - 1146	2359	Gly-10 to Gly-16, Pro-25 to Gly-30.	AR033: 3, AR061: 3, AR096: 3, AR089: 3, AR055: 2, AR060: 2,						

						AR039: 1, AR104: 0, AR052: 0, AR053: 0 S0414: 7, L0794: 4, H0651: 4, L0439: 3, L0749: 3, H0647: 2, L0766: 2, L0803: 2, L0659: 2, L0756: 2, L0599: 2, H0657: 1, H0645: 1, S0222: 1, H0574: 1, H0632: 1, H0486: 1, H0013: 1, H0014: 1, H0355: 1, S6028: 1, S0003: 1, H0673: 1, L0564: 1, S0438: 1, L0764: 1, L0804: 1, L0748: 1, L0754: 1, L0750: 1, L0779: 1, L0581: 1, L0608: 1, S0196: 1 and H0506: 1.			
HJBCC19	982465	185	2 - 949	2360	Cys-1 to Gly-6.	L0766: 5, L0749: 5, L0803: 3, L0809: 3, L0758: 3, S0007: 2, H0124: 2, H0135: 2, L0771: 2, L0744: 2, L0740: 2, L0747: 2, L0779: 2, L0600: 2, H0556: 1, S0116: 1, S0444: 1, H0393: 1, H0351: 1, L0118: 1,			

HODAA93	982618	186	3 - 899	2361	Val-50 to His-55, Ser-75 to Cys-81, Lys-98 to Lys-104.	H0038: 1, H0040: 1, T0042: 1, S0426: 1, L0763: 1, L0662: 1, L0775: 1, L0776: 1, L0659: 1, L0647: 1, L0666: 1, H0670: 1, L0439: 1, L0752: 1, L0595: 1 and H0721: 1.  H0328: 1, H0615: 1, L0804: 1 and H0677: 1.	Xq28	300031, 300044, 300048, 300049, 300049, 300055, 300100, 300100, 300104, 300126, 301201, 301590, 302060, 302060, 302060, 302060, 302960, 303700, 303800, 303900, 304800, 305900,
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HPSI74	982764	187	91 - 705	2362	Pro-34 to Ser-42, Cys-82 to Lys-89, Ser-147 to Lys-156, Ser-198 to Cys-205.				305900, 305900, 306700, 306995, 308310, 308840, 308840, 308840, 309200, 309548, 309620, 309900, 310300, 310400, 310460, 310460, 311300, 311510, 314300, 314400
									106165, 117700, 117700, 150210, 169600, 180380, 180380, 180380, 190000, 203500.

								222900, 232050, 276902, 600882, 601199, 601199, 601199, 601471, 601682
HCEHZ42	983008	188	2115 - 2342	2363	Gly-12 to Pro-23, Gly-41 to Thr-47.	L0742: 11, L0439: 8, H0052: 5, L0794: 5, L0438: 5, S0222: 3, H0457: 3, H0135: 3, L0769: 3, L0768: 3, L0657: 3, L0666: 3, H0547: 3, H0423: 3, H0483: 2, S0354: 2, H0427: 2, H0581: 2, S0049: 2, H0494: 2, L0369: 2, L0662: 2, H0658: 2, L0752: 2, L0758: 2, L0592: 2, S0040: 1, H0650: 1, H0657: 1, L0427: 1, S0418: 1, S0358: 1, S0360: 1, H0580: 1, H0645: 1, H0550: 1, H0486: 1, L0309: 1, H0630: 1, H0687: 1, H0428: 1, H0622: 1,		

HDPVU15	983592	189	66 - 737	2364	Pro-16 to Gly-23, Ser-30 to Lys-38, Glu-44 to Cys-50, Pro-81 to Lys-86, Gly-135 to Gly-140, Arg-167 to Thr-176, Leu-192 to Phe-201, Pro-203 to Ser-209, His-216 to Asn-224.	H0553: 1, S0038: 1, H0560: 1, H0538: 1, L0638: 1, L0639: 1, L0646: 1, L0659: 1, L0526: 1, L0783: 1, L0809: 1, L0647: 1, H0519: 1, H0670: 1, H0651: 1, H0521: 1, S0013: 1, S0028: 1, L0741: 1, L0753: 1, L0755: 1, L0731: 1, H0445: 1, L0361: 1, L0366: 1 and H0543: 1.	3q27	109565, 109565, 142640, 228960, 261515, 600044
HT5GC28	984008	190	1 - 273	2365	Ala-1 to Asn-16, Thr-65 to Thr-74.	H0486: 2, H0521: 2, L0748: 2, H0171: 1, H0556: 1, H0638: 1, H0351: 1, H0052: 1, H0083: 1, L0646: 1, L0794: 1, L0766: 1, L0389: 1, L0803: 1, L0375: 1, L0655: 1, L0527: 1, L0438: 1, H0519: 1, H0435: 1, H0666: 1, S0328: 1, S0378: 1, L0750: 1, L0777: 1, L0755: 1, L0592: 1, H0668: 1 and H0543: 1.	1.11	

HDABW50	984168	191	56 - 523	2366	Arg-21 to Gly-28, Pro-30 to Ser-36, Arg-54 to Arg-61, Gln-125 to Gly-130, Ala-140 to Gln-145.	S0412: 19, H0657: 7, L0748: 7, L0777: 7, H0039: 6, H0659: 6, L0749: 6, H0040: 5, L0655: 5, L0747: 5, L0438: 4, L0742: 4, L0779: 4, L0758: 4, L0599: 4, H0341: 3, S0376: 3, H0497: 3, L0471: 3, H0015: 3, H0687: 3, H0090: 3, L0769: 3, L0776: 3, L0659: 3, L0517: 3, L0664: 3, H0672: 3, L0740: 3, L0752: 3, L0588: 3, L0605: 3, L0608: 3, L0362: 3, H0686: 2, H0662: 2, S0354: 2, S0360: 2, H0559: 2, H0098: 2, H0318: 2, H0545: 2, H0644: 2, L0455: 2, H0135: 2, H0038: 2, S0002: 2, L0646: 2, L0764: 2, L0803: 2, L0375: 2, L0666: 2, S0330: 2, H0539: 2, S0152: 2, H0436: 2, L0755: 2, L0731: 2, L0759: 2, S0434: 2,	6q25.3-q26	100678, 147280, 167000, 173350, 173350, 173350, 180020, 600320, 600883, 602544
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				H0100: 1, T0041: 1, T0042: 1, S0440: 1, H0509: 1, H0132: 1, S0150: 1, H0641: 1, S0422: 1, S0426: 1, H0529: 1, L0369: 1, L0520: 1, L0371: 1, L0796: 1, L0761: 1, L0772: 1, L0800: 1, L0374: 1, L0521: 1, L0364: 1, L0794: 1, L0766: 1, L0522: 1, L0805: 1, L0654: 1, L0606: 1, L0527: 1, L0558: 1, L0647: 1, L0789: 1, S0374: 1, H0519: 1, H0689: 1, H0658: 1, H0660: 1, S0328: 1, S0378: 1, H0521: 1, S0168: 1, H0555: 1, S3012: 1, S0037: 1, S0028: 1, L0439: 1, L0750: 1, L0756: 1, L0757: 1, S0260: 1, L0591: 1, L0593: 1, L0361: 1, S0026: 1, H0653: 1, S0192: 1, S0242: 1, H0542: 1, H0423: 1 and H0422: 1.
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HAQBH11	985043	192	207 - 626	2367	Glu-12 to Arg-25, Leu-36 to Gly-41.	H0360: 12, L0747: 10, L0748: 7, S0007: 6, L0731: 6, L0769: 5, L0766: 5, L0749: 5, L0740: 4, L0751: 4, L0750: 4, L0779: 4, L0471: 3, L0776: 3, L0526: 3, L0666: 3, L0439: 3, H0686: 2, S0408: 2, H0625: 2, L0639: 2, L0646: 2, L0768: 2, L0774: 2, L0655: 2, L0542: 2, L0790: 2, H0659: 2, H0134: 2, L0777: 2, L0755: 2, H0170: 1, T0002: 1, H0685: 1, H0295: 1, S0114: 1, H0663: 1, H0125: 1, S0444: 1, S0360: 1, H0580: 1, S0046: 1, H0351: 1, H0331: 1, L0623: 1, H0244: 1, H0156: 1, T0048: 1, H0052: 1, H0083: 1, H0266: 1, H0328: 1, H0031: 1, H0038: 1, H0412: 1, T0041: 1, S0438: 1, S0440: 1, L0520: 1, L0371: 1,	17p13.3	113721, 247200, 600059, 601545
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HMVA W42	985280	193	1047 - 727	2368			S0212: 1, H0592: 1 and H0052: 1.			
HAGDF03	985323	194	1 - 690	2369	Pro-27 to His-33.		L0779: 3, S0010: 2, H0581: 1, H0081: 1, L0770: 1, L0794: 1, H0689: 1, H0666: 1, S0330: 1, L0593: 1, S0424: 1 and H0506: 1.	4		
HOPKI29	985401	195	2 - 547	2370	Glu-4 to Gly-12, Gly-15 to Lys-21,		L0750: 11, S0026: 7, L0518: 6, L0752: 6,	12		



L0021: 1, S0010: 1, S0665: 1, H0318: 1, H0581: 1, H0251: 1, L0040: 1, H0231: 1, H0545: 1, L0471: 1, H0012: 1, H0024: 1, H0014: 1, H0373: 1, H0051: 1, S0025: 1, H0266: 1, H0267: 1, H0288: 1, S0022: 1, S0214: 1, H0112: 1, H0405: 1, H0169: 1, S0364: 1, S0366: 1, H0090: 1, H0087: 1, S0112: 1, T0041: 1, H0494: 1, H0509: 1, S0144: 1, S0422: 1, L0770: 1, L0373: 1, L0768: 1, L0364: 1, L0650: 1, L0784: 1, L0527: 1, L0657: 1, L0665: 1, S0052: 1, S0374: 1, S0122: 1, H0689: 1, H0684: 1, H0659: 1, S0328: 1, H0521: 1, S0406: 1, H0555: 1, S0027: 1, L0740: 1, L0749: 1, L0759: 1, H0444: 1, L0485: 1, L0604: 1,							
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							L0366: 1, H0668: 1, H0653: 1, S0192: 1 and H0506: 1.		
HJCA11	985580	196	391 - 1293	2371	Asp-23 to Ser-29, Lys-36 to Ala-48, Phe-66 to Arg-74, Gly-92 to Thr-98, Arg-137 to Asp-142, Met-155 to Ser-161.		L0471: 2, H0561: 2, H0543: 2, H0013: 1, H0090: 1, H0634: 1, H0551: 1 and H0560: 1.	2p16	126600, 126600, 136435, 160980, 600678
HWAHA11	986078	197	1144 - 602	2372			AR061: 3, AR089: 3, AR096: 3, AR039: 2, AR060: 2, AR033: 1, AR104: 1, AR055: 1, AR052: 0, AR053: 0 L0751: 6, H0659: 4, H0657: 2, L0764: 2, L0655: 2, H0682: 2, H0521: 2, L0743: 2, L0749: 2, H0265: 1, T0049: 1, S0134: 1, H0255: 1, H0638: 1, S0358: 1, S0376: 1, H0637: 1, S0045: 1, H0549: 1, H0486: 1, T0060: 1, H0575: 1, H0581: 1, H0061: 1, H0266: 1, L0055: 1, H0068: 1, H0090: 1, H0551: 1, H0413: 1, S0142: 1, S0002: 1,		

							L0769: 1, L0775: 1, L0776: 1, L0657: 1, L0664: 1, H0658: 1, H0670: 1, H0648: 1, S0378: 1, L0779: 1, L0731: 1, L0601: 1 and H0423: 1.			
HSAMI43	986158	198	2 - 1477	2373		Glu-27 to Thr-33.	L0717: 2, H0660: 2, S0420: 1, S0376: 1, H0393: 1, H0013: 1, H0266: 1, H0038: 1, H0529: 1, L0800: 1, L0794: 1, L0766: 1, L0657: 1, L0666: 1, H0658: 1, H0626: 1, L0759: 1, H0665: 1, H0543: 1 and H0677: 1.			
HNFJH73	986165	199	1 - 609	2374		Ser-2 to Gly-7, Tyr-18 to Phe-26, Lys-39 to Gly-57, Gly-100 to Pro-106, Asn-109 to Ser-116, Tyr-119 to Ile-125, Pro-151 to Phe-157.	L0439: 10, L0740: 8, L0794: 7, L0805: 7, L0438: 6, H0539: 6, L0748: 6, L0754: 5, L0769: 4, L0776: 4, H0521: 4, H0615: 3, H0040: 3, H0100: 3, L0595: 3, H0624: 2, H0170: 2, H0656: 2, S0045: 2, H0013: 2, S0010: 2, H0051: 2, L0766: 2, L0774: 2, L0375: 2, L0806: 2,	3q28	165500, 600700	

HNTCH03	986328	200	57 - 248	2375	Val-15 to Pro-21, Leu-56 to Gln-64.	L0663: 2, H0556: 1, H0686: 1, L0717: 1, L0764: 1, L0794: 1, L0656: 1, L0665: 1,			
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HSUAA20	986744	201	2 - 1321	2376	Val-36 to Gly-52, Asp-140 to Ser-148, Ser-158 to Thr-163, Arg-168 to Ala-175, Glu-196 to Arg-205, Ser-271 to Lys-276, Val-281 to Tyr-294, Arg-305 to Met-310, Cys-314 to Ile-324, Gln-326 to Tyr-345, Phe-356 to Trp-361, Leu-383 to Ala-390, Glu-412 to Ile-420.	S0374: 1, H0519: 1, H0659: 1, H0648: 1, L0748: 1, L0759: 1, S0436: 1 and L0608: 1.	L0750: 12, L0747: 7, H0543: 7, L0748: 6, L0764: 3, H0539: 3, H0657: 2, L0785: 2, S0358: 2, H0266: 2, H0031: 2, L0766: 2, L0775: 2, L0783: 2, L0666: 2, L0663: 2, L0438: 2, H0435: 2, H0658: 2, H0670: 2, L0588: 2, H0542: 2, H0624: 1, S0342: 1, L0443: 1, L0808: 1, H0305: 1, L0481: 1, H0431: 1, H0438: 1, S0280: 1, L0021: 1, H0036: 1, H0004: 1, H0318: 1, N0006: 1, H0050: 1, L0471: 1, H0687: 1, S0003: 1, H0428: 1, L0455: 1, H0494: 1, H0625: 1, L0598: 1, L0763: 1, L0769: 1, L0761: 1, L0772: 1, L0641: 1, L0773: 1, L0662: 1,	17p13.3	113721, 247200, 600059, 601545
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HSPAD08	986767	202	809 - 1054	2377	Pro-32 to Ser-37, Arg-52 to Gly-63, Lys-66 to Gly-73.	L0378: 1, L0806: 1, L0776: 1, L0657: 1, L0659: 1, L0517: 1, L0809: 1, L0647: 1, L0532: 1, S0126: 1, H0689: 1, H0690: 1, H0659: 1, H0660: 1, S0328: 1, H0518: 1, H0134: 1, L0740: 1, L0754: 1, L0749: 1, L0759: 1, L0591: 1, L0608: 1, L0362: 1, L0366: 1, H0136: 1 and S0398: 1.	20q12-q13.2	118504, 118504, 131242, 139320, 139320, 139320, 139320, 139320, 600281, 600281, 602025
HFKBA32	987018	203	1 - 618	2378	Phe-1 to Cys-10.	L0439: 7, L0438: 4, L0770: 3, L0809: 3, S0360: 2, H0011: 2, L0794: 2, H0672: 2, L0749: 2, L0756: 2, L0759: 2, S0046: 1,	20p12	112261, 176640, 176640, 176640, 236700, 601920

HHFLU49	987071	204	50 - 745	2379	Val-23 to Gly-32.	H0437: 1, T0048: 1, S0050: 1, S0051: 1, H0687: 1, L0455: 1, H0100: 1, L0351: 1, L0769: 1, L0761: 1, L0768: 1, L0806: 1, L0659: 1, L0383: 1, L0666: 1, H0547: 1, H0539: 1, L0748: 1, L0747: 1, L0780: 1, L0731: 1, L0366: 1 and L0697: 1.	19q13.3	113900, 126340, 126391, 130410, 134790, 138570, 160900, 173850, 258501, 600040, 602225, 602225
						L0751: 4, S0126: 3, H0658: 2, L0741: 2, H0171: 1, T0002: 1, S0001: 1, H0619: 1, H0574: 1, H0618: 1, H0199: 1, H0057: 1, H0020: 1, H0201: 1, L0055: 1, H0038: 1, L0769: 1, L0646: 1, L0643: 1, L0794: 1, L0766: 1, L0774: 1, L0655: 1, L0659: 1, L0665: 1, H0703: 1, H0659: 1, S0028: 1, L0777: 1, L0780: 1, L0731: 1, L0758: 1, S0031: 1, L0599: 1, H0136: 1 and H0543: 1.		

HOENX16	987112	205	164 - 850	2380	Pro-3 to Val-18, Trp-21 to Gly-27.	L0805: 18, L0776: 16, L0751: 14, L0759: 10, L0770: 8, L0769: 6, L0758: 6, H0351: 4, L0803: 4, L0807: 4, L0754: 4, H0716: 3, S0250: 3, H0615: 3, H0644: 3, L0791: 3, L0793: 3, S0408: 2, H0013: 2, H0594: 2, H0591: 2, L0796: 2, L0521: 2, L0662: 2, L0794: 2, L0774: 2, L0518: 2, L0792: 2, L0666: 2, H0144: 2, H0670: 2, L0740: 2, L0779: 2, H0624: 1, S0342: 1, H0640: 1, H0369: 1, H0549: 1, H0486: 1, S0280: 1, L0021: 1, L0022: 1, S0010: 1, L0109: 1, H0024: 1, S0051: 1, H0428: 1, H0622: 1, H0032: 1, T0067: 1, H0059: 1, L0640: 1, L0763: 1, L0773: 1, L0659: 1, L0809: 1, L0788: 1, L0532: 1, L0665: 1, H0547: 1,	6p22-p21	180297, 248611, 251000, 263200, 600211, 600701, 601690
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HTFOW71	987165	206	14 - 400	2381	Thr-1 to Ser-6.			L0766: 4, L0665: 4, L0754: 3, H0013: 2, H0052: 2, L0776: 2, H0144: 2, L0777: 2, L0622: 1, H0427: 1, S0344: 1, L0520: 1, L0774: 1, L0775: 1, L0527: 1, L0659: 1, L0666: 1, H0689: 1, H0682: 1, H0672: 1, H0522: 1, L0741: 1, L0750: 1, L0756: 1, L0758: 1 and S0424: 1.			
HTTAG03	987262	207	1270 - 68	2382	Pro-4 to Pro-27, Ala-35 to Arg-43, Asp-56 to Val-61.			L0439: 70, L0666: 20, L0748: 20, H0013: 15, L0663: 15, L0740: 15, L0754: 14, L0438: 12, L0769: 11, L0752: 11, H0046: 9, L0662: 9, L0776: 9, L0665: 9, H0547: 9, L0766: 8, H0670: 8, H0622: 7,			

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HNTNN89	987577	208	2 - 562	2383	Glu-134 to Val-139, Trp-147 to Lys-161, Ala-163 to Pro-172.		S0250: 4, S0358: 3, N0006: 3, H0620: 3, H0014: 3, H0656: 2, H0024: 2, L0776: 2, L0750: 2, S0212: 1, H0450: 1, H0549: 1, H0550: 1, H0575: 1, H0036: 1, H0590: 1, H0050: 1, L0471: 1, H0373: 1, H0628: 1, H0038: 1, H0551: 1, H0264: 1, H0100: 1, H0494: 1, H0509: 1, L0790: 1, H0520: 1, H0435: 1, H0521: 1, S0027: 1, S0032: 1, L0759: 1, S0434: 1, L0485: 1, L0595: 1, H0542: 1, H0543: 1 and S0021: 1.			
HRADQ96	987636	209	165 - 398	2384	Pro-5 to Gly-13, Gly-26 to Gly-34, Leu-49 to Glu-62, Gly-67 to Val-78.		L0758: 4, L0803: 3, L0779: 3, L0794: 2, L0776: 2, L0789: 2, H0555: 2, L0748: 2, L0731: 2, H0622: 1, L0800: 1, L0809: 1,	6p21.3	106300, 108800, 120290, 120290, 120810, 120820,	

HLDCJ16	987808	210	93 - 776	2385	Asn-85 to Glu-91.	L0666: 1, H0670: 1, H0648: 1, L0745: 1, L0749: 1, L0759: 1 and L0596: 1.			142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550, 600202, 600261, 601868, 602280, 602475
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HCOPH23	987900	211	268 - 603	2386			S0386: 1, H0670: 1 and 2q36 H0444: 1.	120070, 120131, 120131, 138030, 147545, 259900, 262000
HEEAQ78	988159	212	466 - 149	2387	Ala-9 to Phe-15, Gly-44 to Pro-52, Pro-100 to Lys-106.	H0549: 2, H0023: 2, H0024: 2, L0750: 2, H0624: 1, L0659: 1, L0809: 1, L0740: 1, L0747: 1 and L0731: 1.	17q23	106180, 138700, 139250, 150200, 154275, 176960, 249000, 253250
HOFNY16	988363	213	2 - 853	2388	Ala-1 to Thr-9, Arg-62 to Trp-77, Arg-176 to Pro-181, Val-191 to Leu-198, Lys-265 to Lys-272, Asn-276 to Val-283.	L0766: 5, L0755: 5, L0770: 4, L0659: 4, L0750: 4, L0752: 4, S0360: 3, L0764: 3, L0662: 3, L0774: 3, L0740: 3, L0731: 3, L0759: 3, S0132: 2, H0411: 2, H0188: 2, H0413: 2, L0598: 2, L0805: 2, L0782: 2, L0664: 2, H0144: 2, L0751: 2, L0749: 2, S0194: 2, H0624: 1, H0713: 1, S0218: 1, S0116: 1, H0663: 1,		

HSLCX45	988441	214	1 - 1458	2389	His-11 to Pro-18,	L0481: 1, S0376: 1, H0415: 1, H0586: 1, H0587: 1, T0109: 1, H0545: 1, H0046: 1, H0123: 1, T0023: 1, H0166: 1, H0038: 1, H0551: 1, H0264: 1, H0059: 1, T0042: 1, H0494: 1, H0560: 1, S0440: 1, H0529: 1, L0762: 1, L0763: 1, L0769: 1, L0796: 1, L0637: 1, L0772: 1, L0646: 1, L0800: 1, L0771: 1, L0768: 1, L0649: 1, L0803: 1, L0661: 1, L0657: 1, L0532: 1, S0374: 1, H0520: 1, S0126: 1, S0122: 1, H0659: 1, H0658: 1, H0660: 1, S0404: 1, S0037: 1, S3014: 1, S0206: 1, L0748: 1, L0747: 1, L0756: 1, L0757: 1, L0758: 1, S0434: 1, S0436: 1, L0591: 1, L0608: 1, L0595: 1 and S0276: 1.	S0436: 10, L0803: 6,	19q12
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				Arg-40 to Asn-53.	H0046: 5, L0754: 5, L0362: 5, L0794: 4, L0766: 4, L0749: 4, L0779: 4, S0444: 3, L0805: 3, L0527: 3, H0648: 3, L0439: 3, L0740: 3, L0747: 3, L0750: 3, L0777: 3, L0752: 3, H0671: 2, S0360: 2, S0408: 2, H0486: 2, L0105: 2, T0067: 2, H0059: 2, H0652: 2, L0770: 2, L0641: 2, L0662: 2, L0655: 2, L0783: 2, L0793: 2, L0665: 2, L0438: 2, H0520: 2, H0435: 2, H0659: 2, S0136: 2, L0731: 2, L0758: 2, L0759: 2, S0424: 2, H0717: 1, S0402: 1, H0657: 1, H0254: 1, S0348: 1, S0442: 1, H0722: 1, S0132: 1, S0476: 1, H0640: 1, S0300: 1, L0717: 1, S0278: 1, S0222: 1, H0587: 1, H0156: 1, H0575: 1, T0082: 1, H0318: 1,		
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HLMJB09	988499	215	249 - 506	2390	Gln-10 to Lys-15, Pro-28 to Gln-33.	H0255: 1, H0002: 1, H0266: 1, L0803: 1, H0660: 1, L0751: 1 and L0777: 1.		
HOVEF60	988526	216	113 - 724	2391	Tyr-18 to Lys-23,	H0428: 8, L0603: 2		

HOGDR72	988536	217	2 - 415	2392	Pro-32 to Arg-44, Pro-51 to Gly-56. Lys-56 to Leu-70, Gln-85 to Ala-91, Met-123 to Asn-133.	and S0114: 1. H0617: 10, S0410: 8, L0769: 7, H0038: 6, L0439: 6, L0750: 6, L0752: 6, L0758: 6, S0360: 5, L0775: 5, S0406: 5, H0150: 4, L0157: 4, H0620: 4, H0087: 4, S0440: 4, S0344: 4, L0763: 4, S0328: 4, L0747: 4, H0224: 3, H0484: 3, H0402: 3, S0049: 3, H0708: 3, L0773: 3, L0805: 3, L0809: 3, L0519: 3, H0670: 3, L0748: 3, L0731: 3, L0757: 3, L0581: 3, H0295: 2, H0341: 2, S0444: 2, S0222: 2, L0622: 2, H0253: 2, H0309: 2, T0115: 2, H0544: 2, H0545: 2, H0081: 2, H0012: 2, H0673: 2, S0036: 2, H0616: 2, L0770: 2, L0518: 2, H0725: 2, S0374: 2, H0696: 2, L0588: 2, H0543: 2,	13	
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HOCMF20	988556	218	1 - 366	2393	Gly-1 to Ser-20, Phe-29 to Asn-37, Asn-55 to Tyr-64, Ala-69 to Asp-78, Tyr-82 to Ala-91, Lys-100 to Glu-122.	S0142: 1, L0598: 1, L3904: 1, L0761: 1, L0772: 1, L0764: 1, L0767: 1, L0768: 1, L0766: 1, L0649: 1, L0803: 1, L0774: 1, L0375: 1, L0806: 1, L0776: 1, L0517: 1, L0526: 1, L0783: 1, L0789: 1, H0144: 1, L0438: 1, H0689: 1, H0690: 1, H0682: 1, H0683: 1, H0435: 1, H0659: 1, H0648: 1, H0521: 1, H0522: 1, S3014: 1, S0027: 1, L0755: 1, L0759: 1, H0445: 1, H0343: 1, H0595: 1, L0608: 1, H0136: 1, S0276: 1, H0542: 1, L0600: 1 and H0352: 1.			
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HAMHH26	988737	219	309 - 773	2394	Ala-12 to Asn-18.	H0618: 1, H0081: 1, T0010: 1, H0560: 1, L0763: 1, L0803: 1 and L0790: 1.			
HHFOX44	988904	220	3 - 659	2395		S0212: 20, L0751: 14, L0663: 11, L0731: 11, H0083: 10, L0657: 10, L0666: 10, H0547: 10, H0550: 7, H0620: 6, L0769: 6, H0689: 6, H0123: 5, H0428: 5, L0662: 5, S0356: 4, H0059: 4, L0664: 4, H0520: 4, H0670: 4, L0581: 4, S0418: 3, L0717: 3, H0618: 3, H0494: 3, S0438: 3,	2q33-q34	100730, 118800, 123660, 135600, 157655, 186860, 201460, 205100, 213700, 262000, 600258, 601277, 601318	

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HPWDE54	989029	221	1 - 2127	2396	Met-1 to Ile-6, Cys-13 to Ser-20, Asp-40 to Ser-46, Asp-48 to Ser-62, Ser-70 to Tyr-80, Glu-83 to Ser-89, Leu-108 to Ser-119,	H0632: 1, T0109: 1, H0575: 1, H0545: 1, H0009: 1, H0024: 1, H0057: 1, H0373: 1, H0188: 1, H0288: 1, H0286: 1, H0644: 1, H0617: 1, H0606: 1, H0087: 1, L0564: 1, S0440: 1, L0772: 1, L0374: 1, L0794: 1, L0652: 1, L0653: 1, L0809: 1, L0543: 1, H0693: 1, H0593: 1, H0690: 1, H0682: 1, H0684: 1, H0666: 1, S0330: 1, S0380: 1, H0696: 1, H0555: 1, S0027: 1, L0748: 1, L0750: 1, L0779: 1, L0755: 1, L0759: 1, H0445: 1, S0436: 1, L0597: 1, L0599: 1, H0542: 1 and S0384: 1.		
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HNOAX46	989183	222	1 - 789	2397	Cys-138 to Trp-154, S0212: 1, S0376: 1, Glu-198 to Val-227, H0438: 1, H0318: 1, Lys-251 to Asp-264, L0471: 1, H0375: 1, Asp-407 to Glu-415, H0038: 1, H0551: 1, Ile-456 to Val-462, L0763: 1, L0764: 1, Ser-470 to His-476, L0767: 1, L0794: 1, Phe-478 to Ser-492, L0775: 1, L0805: 1, Arg-500 to Asp-507, L0653: 1, H0648: 1, Asn-595 to Ala-603, S0044: 1, L0742: 1, Leu-638 to Leu-648, L0439: 1, L0747: 1, Lys-667 to Asn-673, L0750: 1, S0031: 1, Trp-684 to Ile-691, H0445: 1, L0590: 1 and Ser-698 to Glu-709, H0543: 1.		
					H0556: 17, H0305: 15, S0414: 14, L0665: 14, H0402: 12, S0360: 11, L0663: 11, L0777: 11, L0766: 9, L0664: 9, L0752: 9, L0362: 9, L0662: 8, L0754: 8, S0408: 7, L0776: 7, L0666: 7, H0648: 7, S0406: 7, L0758: 7, H0422: 7, L0803: 6, L0655: 6, H0696: 6, H0657: 5, H0486: 5, L0770: 5, L0659: 5, H0144: 5, S0328: 5, L0742: 5, L0731: 5, H0423: 5, H0265: 4,		

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H0333: 1, H0331: 1, H0013: 1, H0244: 1, H0427: 1, H0599: 1, H0706: 1, S0010: 1, S0346: 1, H0318: 1, H0251: 1, H0123: 1, H0012: 1, H0620: 1, T0003: 1, S0050: 1, H0014: 1, S0024: 1, H0239: 1, H0510: 1, H0247: 1, H0271: 1, H0188: 1, H0028: 1, S0250: 1, S0003: 1, H0328: 1, T0023: 1, H0031: 1, H0553: 1, H0628: 1, H0040: 1, H0634: 1, H0087: 1, H0551: 1, T0067: 1, H0488: 1, H0623: 1, H0059: 1, H0561: 1, S0440: 1, H0131: 1, H0633: 1, H0652: 1, S0142: 1, S0344: 1, S0210: 1, H0529: 1, L0520: 1, L0646: 1, L0765: 1, L0648: 1, L0767: 1, L0794: 1, L0649: 1, L0650: 1, L0375: 1, L0651: 1, L0806: 1, L0654: 1,					
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HCQCB28	989280	223	408 - 289	2398	His-7 to Lys-14.	L0657: 1, L0656: 1, L0782: 1, L0647: 1, L0788: 1, L2269: 1, H0697: 1, H0691: 1, H0693: 1, L0352: 1, H0547: 1, H0689: 1, H0659: 1, H0658: 1, S0152: 1, H0525: 1, H0521: 1, S0013: 1, H0704: 1, H0694: 1, H0555: 1, S0206: 1, L0740: 1, L0749: 1, L0755: 1, L0759: 1, S0031: 1, H0445: 1, H0343: 1, H0595: 1, S0436: 1, L0599: 1, L0603: 1, S0192: 1, S0276: 1, S0196: 1, H0677: 1 and H0008: 1.		
						L0768: 5, L0766: 3, L0769: 2, L0748: 2, L0750: 2, L0758: 2, H0663: 1, S0420: 1, S0360: 1, H0675: 1, H0486: 1, H0596: 1, H0179: 1, H0328: 1, L0363: 1, L0806: 1, L0809: 1, H0658: 1, L0747: 1, L0777: 1, L0731: 1 and H0352: 1.		

HOOJB32	989321	224	460 - 1173	2399	Ser-75 to Ala-92, Ala-106 to Met-123, Pro-125 to Gln-131, Asp-175 to Asn- 182, Val-197 to Arg-224.	L0777: 7, L0766: 5, L0663: 3, H0660: 3, L0752: 3, L0758: 3, H0650: 2, H0124: 2, L0646: 2, L0740: 2, H0445: 2, L0588: 2, L0485: 2, S0424: 2, H0657: 1, H0341: 1, S0358: 1, S0360: 1, S0046: 1, H0385: 1, H0586: 1, L0477: 1, H0004: 1, H0052: 1, H0596: 1, H0373: 1, H0083: 1, H0375: 1, H0376: 1, H0059: 1, H0494: 1, S0150: 1, L0369: 1, L0763: 1, L0764: 1, L0662: 1, L0768: 1, L0803: 1, L0775: 1, L0776: 1, L0659: 1, L0666: 1, L0665: 1, H0144: 1, S0126: 1, H0659: 1, H0648: 1, S0330: 1, S0378: 1, S0152: 1, H0436: 1, S0390: 1, L0581: 1 and H0668: 1.		
HMWJJ35	989323	225	303 - 452	2400		H0171: 1, H0341: 1, L0157: 1, H0083: 1, H0068: 1, H0038: 1,	13q14.3	277900, 600631

HHFIA95	989396	226	105 - 188	2401	Phe-2 to Cys-10.	H0616: 1 and L0519: 1, L0438: 4, L0754: 4, H0521: 3, H0624: 2, S0356: 2, S0132: 2, L0803: 2, L0806: 2, L0439: 2, L0749: 2, L0779: 2, L0759: 2, H0556: 1, H0686: 1, L0002: 1, H0661: 1, S0376: 1, H0580: 1, H0586: 1, H0544: 1, H0050: 1, L0471: 1, H0620: 1, H0373: 1, H0051: 1, H0083: 1, H0594: 1, S6028: 1, S0003: 1, H0622: 1, H0032: 1, H0169: 1, H0040: 1, H0264: 1, H0560: 1, S0422: 1, L0369: 1, L0373: 1, L0646: 1, L0774: 1, L0784: 1, L0653: 1, L0776: 1, L0663: 1, H0593: 1, S0328: 1, H0539: 1, S0027: 1, L0752: 1, L0731: 1, L0605: 1, L0591: 1, L0604: 1 and H0542: 1.		
HSPSH36	989607	227	71 - 259	2402	Pro-26 to Glu-49, Asp-58 to Pro-63.			

HAAAA25	989952	228	1136 - 534	2403	Lys-14 to Glu-23, Glu-30 to Ser-43, Ser-45 to His-54, Thr-66 to Tyr-71, Pro-75 to Asp-80, Ile-98 to Thr-120, Glu-125 to Lys-133, Leu-146 to Ala-152, Ala-170 to Ile-176, Asp-180 to Cys-200.	H0318: 1, H0646: 1 and L0366: 1.	8q24.12- q24.13	133700, 133700, 150230, 190080, 190350
HTEMJ16	990060	229	268 - 645	2404	His-8 to Ser-15, Ser-21 to Gly-32, Arg-51 to Ala-57, Phe-71 to Leu-78, Gly-87 to Glu-92.	L0777: 10, H0616: 4, L0758: 4, L0761: 3, L0766: 3, H0648: 3, L0749: 3, L0750: 3, L0755: 3, H0318: 2, H0545: 2, H0373: 2, H0038: 2, S0438: 2, S0422: 2, L0774: 2, L0375: 2, L0657: 2, L0518: 2, H0659: 2, L0731: 2, L0759: 2, H0685: 1, H0294: 1, H0656: 1, L0808: 1, S0420: 1, H0586: 1, L0622: 1, H0486: 1, T0082: 1, S0010: 1, S0049: 1, L0471: 1, H0615: 1, L0520: 1, L0762: 1, L0763: 1, L0770: 1, L0769: 1,		



									L0372: 1, L0646: 1, L0767: 1, L0768: 1, L0803: 1, L0776: 1, L0658: 1, L0636: 1, L0368: 1, L0666: 1, L0664: 1, L0665: 1, H0682: 1, H0658: 1, H0666: 1, S0330: 1, S0406: 1, S0027: 1, L0747: 1, L0779: 1, L0780: 1, L0753: 1 and L0757: 1.		
HWLAB90	990146	230	2 - 682	2405	Glu-1 to Val-14, Arg-123 to Gly-128.				L0748: 6, L0774: 4, L0439: 4, L0749: 4, L0764: 3, L0771: 3, L0775: 3, L0665: 3, S0408: 2, H0644: 2, L0766: 2, L0649: 2, S0374: 2, L0747: 2, S0282: 1, H0662: 1, S0442: 1, S0354: 1, H0586: 1, H0156: 1, L0021: 1, H0239: 1, H0494: 1, S0440: 1, H0695: 1, L0762: 1, L0761: 1, L0648: 1, L0803: 1, L0804: 1, L0666: 1, L0663: 1, H0689: 1, H0658: 1, H0648: 1, S0380: 1,		

HOSED43	990184	231	2 - 790	2406	Gln-81 to Cys-86, Lys-170 to Asp-181.	S0044: 1, L0755: 1, L0758: 1 and H0423: 1.  AR089: 23, AR096: 19, AR039: 16, AR052: 16, AR060: 13, AR033: 11, AR055: 10, AR104: 9, AR053: 4, AR061: 3 H0024: 2, L0594: 2, H0542: 2, H0657: 1, S0214: 1, L0761: 1, L0766: 1, H0435: 1, H0658: 1, S0380: 1, L0753: 1 and L0759: 1.		
HNODF50	990254	232	761 - 165	2407	Gly-1 to Gln-11, Pro-111 to Pro-126, Lys-174 to Ser-179, Leu-181 to Leu-190.	H0617: 10, S0126: 7, S0404: 5, L0747: 5, L0779: 5, H0253: 4, H0545: 4, L0766: 4, S0328: 4, L0742: 4, L0752: 4, H0686: 3, S0420: 3, S0358: 3, S0046: 3, S0278: 3, H0592: 3, H0618: 3, H0100: 3, L0769: 3, H0519: 3, L0743: 3, L0758: 3, H0341: 2, H0484: 2, H0333: 2, H0327: 2, H0544: 2, H0046: 2, H0594: 2, T0042: 2, H0494: 2,		

				S0426: 2, L0763: 2, L0761: 2, L0764: 2, L0519: 2, L0532: 2, L0665: 2, H0435: 2, H0651: 2, S0330: 2, H0539: 2, S0206: 2, L0751: 2, L0755: 2, S0106: 2, H0543: 2, H0422: 2, H0624: 1, H0171: 1, H0657: 1, H0656: 1, S0282: 1, S0029: 1, H0663: 1, H0662: 1, H0459: 1, S0418: 1, S0354: 1, H0393: 1, H0351: 1, S6016: 1, S0220: 1, H0370: 1, H0586: 1, H0497: 1, L0623: 1, T0114: 1, H0069: 1, L0021: 1, H0575: 1, H0052: 1, H0309: 1, H0231: 1, H0546: 1, H0041: 1, H0009: 1, H0050: 1, H0024: 1, L0163: 1, H0510: 1, H0266: 1, H0284: 1, H0286: 1, H0688: 1, H0428: 1, L0194: 1, T0006: 1, H0213: 1, H0553: 1, H0644: 1,			
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H0628: 1, H0181: 1, H0598: 1, S0036: 1, H0040: 1, H0634: 1, H0616: 1, H0087: 1, H0059: 1, T0041: 1, H0561: 1, H0509: 1, H0647: 1, S0144: 1, S0142: 1, H0538: 1, S0002: 1, L0520: 1, L0772: 1, L0643: 1, L0771: 1, L0773: 1, L0662: 1, L0794: 1, L0386: 1, L0774: 1, L0776: 1, L0527: 1, L0657: 1, L0515: 1, L0659: 1, L0517: 1, L0542: 1, L0545: 1, L0666: 1, L0664: 1, H0593: 1, H0689: 1, H0690: 1, H0682: 1, H0659: 1, H0670: 1, H0518: 1, S0146: 1, H0436: 1, H0576: 1, S0390: 1, S0037: 1, S3014: 1, L0748: 1, L0754: 1, L0749: 1, L0753: 1, S0031: 1, H0445: 1, L0596: 1, H0668: 1, H0667: 1, S0242: 1, S0194: 1,
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HLWBV17	990255	233	144 - 542	2408	Pro-46 to Pro-60, Lys-108 to Ser-113, Leu-115 to Leu-124.	S0196: 1, H0423: 1 and H0008: 1. H0617: 10, S0126: 7, S0404: 5, L0747: 5, L0779: 5, H0253: 4, H0545: 4, L0766: 4, S0328: 4, L0742: 4, L0752: 4, H0686: 3, S0420: 3, S0358: 3, S0046: 3, S0278: 3, H0592: 3, H0618: 3, H0100: 3, L0769: 3, L0665: 3, H0519: 3, L0743: 3, L0758: 3, H0341: 2, H0484: 2, H0333: 2, H0327: 2, H0544: 2, H0046: 2, H0594: 2, T0042: 2, H0494: 2, S0426: 2, L0763: 2, L0761: 2, L0764: 2, L0519: 2, L0532: 2, H0435: 2, H0651: 2, S0330: 2, H0539: 2, S0206: 2, L0751: 2, L0755: 2, S0106: 2, H0543: 2, H0422: 2, H0624: 1, H0171: 1, H0657: 1, H0656: 1, S0282: 1, S0029: 1, H0663: 1,		
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HOCQH66	990435	234	37 - 2745	2409	Leu-1 to Gly-8.	L0386: 1, L0774: 1, L0776: 1, L0527: 1, L0657: 1, L0515: 1, L0659: 1, L0517: 1, L0542: 1, L0545: 1, L0666: 1, L0664: 1, H0593: 1, H0689: 1, H0690: 1, H0682: 1, H0659: 1, H0670: 1, H0518: 1, S0146: 1, H0436: 1, H0576: 1, S0390: 1, S0037: 1, S3014: 1, L0748: 1, L0754: 1, L0749: 1, L0753: 1, S0031: 1, H0445: 1, L0596: 1, H0668: 1, H0667: 1, S0242: 1, S0194: 1, S0196: 1, H0423: 1 and H0008: 1.	2q37	113300, 120070, 120131, 120131, 120250, 138030, 259900, 600430
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	H0551: 5, H0624: 4, H0012: 4, S0027: 4, L0747: 4, H0665: 4, H0586: 3, T0039: 3, H0575: 3, H0014: 3, H0252: 3, L0142: 3, H0038: 3, H0616: 3, S0037: 3, L0748: 3, S0298: 2, H0486: 2, H0244: 2, H0427: 2, H0318: 2, H0050: 2, L0471: 2, H0284: 2, H0286: 2, H0328: 2, H0032: 2, H0591: 2, S0390: 2, S0206: 2, S0196: 2, S0462: 2, H0170: 1, H0222: 1, S0430: 1, H0661: 1, S0356: 1, S0354: 1, S0360: 1, H0645: 1, H0393: 1, H0549: 1, H0370: 1, H0485: 1, H0270: 1, H0599: 1, H0042: 1, H0594: 1, S0003: 1, S0022: 1, S0214: 1, L0053: 1, H0030: 1, H0553: 1, H0644: 1, H0124: 1, S0366: 1, H0598: 1, H0090: 1, H0040: 1,	
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HOGDC67	990546	235	1887 - 859	2410	Thr-77 to Val-84, Ser-244 to Val-255, Ala-296 to Val-301.	H0063: 1, H0647: 1, L0763: 1, L0545: 1, L0789: 1, L0438: 1, H0519: 1, H0682: 1, H0658: 1, H0660: 1, S0332: 1, S0146: 1, S0032: 1, L0439: 1, L0751: 1, L0754: 1, L0750: 1, L0731: 1, S0242: 1, H0008: 1 and H0293: 1.		
						S0126: 8, S0418: 5, L0439: 5, H0551: 4, L0438: 4, L0747: 4, S0192: 4, H0556: 3, H0046: 3, L0769: 3, L0771: 3, L0662: 3, L0665: 3, L0731: 3, H0265: 2, S0360: 2, S0410: 2, S0046: 2, H0370: 2, H0618: 2, H0284: 2, H0181: 2, H0494: 2, H0560: 2, L0763: 2, L0764: 2, L0649: 2, L0378: 2, L0806: 2, L0547: 2, L0789: 2, L0666: 2, L0663: 2, H0520: 2, H0435: 2, S0152: 2, L0759: 2, L0596: 2,	17	

L0595: 2, H0624: 1, S0040: 1, S0342: 1, H0657: 1, S0212: 1, S0420: 1, S0045: 1, H0441: 1, H0497: 1, H0333: 1, H0559: 1, H0486: 1, T0109: 1, H0253: 1, H0309: 1, H0545: 1, H0123: 1, H0081: 1, H0024: 1, S0388: 1, T0010: 1, H0594: 1, H0266: 1, H0292: 1, H0286: 1, H0252: 1, H0615: 1, H0039: 1, H0048: 1, H0644: 1, H0617: 1, H0598: 1, H0135: 1, H0063: 1, H0164: 1, H0433: 1, H0625: 1, H0561: 1, L0065: 1, H0131: 1, S0150: 1, H0633: 1, H0538: 1, S0208: 1, H0529: 1, L0770: 1, L0637: 1, L0800: 1, L0374: 1, L0644: 1, L0363: 1, L0794: 1, L0766: 1, L0388: 1, L0533: 1, L0804: 1, L0650: 1, L0540: 1, L0809: 1,					
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HCDBO02	990609	236	4088 - 831	2411		H0547: 1, H0593: 1, H0659: 1, H0660: 1, S0044: 1, H0478: 1, S3014: 1, S0032: 1, L0750: 1, L0777: 1, L0758: 1, S0031: 1, H0653: 1 and H0667: 1. L0794: 15, L0766: 12, L0439: 9, H0547: 7, H0520: 6, H0435: 5, S0440: 4, S0422: 4, L0664: 4, L0756: 4, S0376: 3, H0251: 3, H0529: 3, L0659: 3, L0755: 3, S0026: 3, H0657: 2, S0418: 2, S0444: 2, L0646: 2, L0768: 2, L0789: 2, H0519: 2, H0672: 2, H0555: 2, L0754: 2, L0747: 2, L0779: 2, L0777: 2, L0731: 2, L0759: 2, L0589: 2, L0581: 2, L0608: 2, L0593: 2, H0542: 2, H0423: 2, H0422: 2, T0002: 1, S0040: 1, H0717: 1, H0650: 1, H0662: 1, S0420: 1, H0580: 1, H0729: 1,	12q14	123829, 147570, 181430, 252940, 264700, 600808, 601284, 601769, 601769, 602116
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HODGN92	990611	237	101 - 505	2412	H0615: 1 and H0660: 1.	H0229: 1, L0717: 1, H0497: 1, H0486: 1, H0244: 1, H0318: 1, H0581: 1, H0596: 1, L0041: 1, H0009: 1, H0563: 1, H0572: 1, L0471: 1, H0266: 1, S0214: 1, H0252: 1, H0039: 1, L0055: 1, S0036: 1, H0090: 1, H0412: 1, H0623: 1, H0059: 1, S0038: 1, H0494: 1, S0150: 1, L0637: 1, L0641: 1, L0764: 1, L0771: 1, L0803: 1, L0804: 1, L0775: 1, L0375: 1, L0657: 1, L0518: 1, L0809: 1, L5623: 1, L0666: 1, H0144: 1, H0701: 1, H0711: 1, H0659: 1, H0670: 1, H0660: 1, H0648: 1, L0602: 1, S0028: 1, L0744: 1, L0748: 1, L0780: 1, S0436: 1, L0591: 1, L0594: 1, L0366: 1 and H0665: 1.		
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HPDRP30	990751	238	1166 - 2098	2413	Gln-1 to Pro-11, Val-15 to Arg-23, Arg-44 to Arg-59, Thr-70 to Gln-75, Ala-153 to Gln-168, Pro-187 to Pro-194, Pro-204 to Asp-214.	H0618: 12, H0253: 4, L0771: 4, S0358: 2, H0688: 2, H0658: 2, H0651: 2, L0439: 2, L0777: 2, H0445: 2, S6024: 1, H0484: 1, S0420: 1, S0376: 1, H0619: 1, H0609: 1, H0586: 1, H0642: 1, H0427: 1, H0196: 1, H0309: 1, H0546: 1, H0009: 1, H0123: 1, H0292: 1, H0553: 1, H0617: 1, H0551: 1, H0264: 1, S0440: 1, H0646: 1, L0372: 1, L0646: 1, L0803: 1, L0658: 1, L0659: 1, L0783: 1, L0788: 1, L0438: 1, H0690: 1, H0660: 1, H0648: 1, H0479: 1, L0744: 1, L0779: 1, L0758: 1, S0436: 1, H0542: 1 and H0423: 1.			
HBXFN09	990769	239	95 - 145	2414		H0438: 1 and L0749: 1.			
HDTBO75	990913	240	184 - 324	2415			1p22.1- p21.3	170995, 600309, 601414,	

HELGN26	991014	241	3 - 902	2416	Arg-1 to Asn-18.	S0045: 1		602094
HODCU15	991048	242	828 - 1592	2417	Thr-57 to Glu-63, Ala-66 to Val-75, Glu-77 to Phe-86, Asp-199 to Gly-211.	AR055: 1, AR096: 1, AR089: 1, AR060: 1, AR104: 1, AR039: 1, AR061: 1, AR053: 1, AR033: 0, AR052: 0 S0418: 1, H0328: 1 and L0758: 1.		
HOGDI51	991268	243	1 - 543	2418	Phe-102 to Pro-111, His-136 to Lys-141.	H0038: 1, H0435: 1 and L0592: 1.	9q34	125270, 125270, 128100, 137350, 191100, 215700, 223360, 268900, 601850
HLWAF02	991516	244	156 - 449	2419	Arg-1 to Ser-6, Phe-13 to Gln-24, Glu-31 to Arg-40, Ser-48 to Asn-56, Asp-69 to Val-75.	H0553: 1 and L0758: 1.	2q	
HRKPA16	991654	245	296 - 502	2420	Asn-47 to Phe-58.	L0748: 3, L0759: 3, H0366: 2, L0666: 2, L0665: 2, L0602: 2, S0136: 2, L0751: 2, L0779: 2, S0442: 1, L0717: 1, L0738: 1, T0010: 1, S0003: 1,		

HPDQX94	991761	246	90 - 650	2421	Asp-15 to Ser-25, Ser-33 to Val-38, Lys-181 to Phe-187.	H0622: 1, H0673: 1, H0674: 1, H0388: 1, H0412: 1, T0041: 1, S0422: 1, S0426: 1, L0638: 1, L0662: 1, L0768: 1, L0766: 1, L0775: 1, L0805: 1, L0655: 1, L0657: 1, L0512: 1, L0659: 1, L0663: 1, L0664: 1, H0670: 1, S0406: 1, H0678: 1, L0745: 1, L0756: 1, L0752: 1, S0436: 1, L0581: 1 and L0601: 1.	4q28-q31	107250, 134820, 134820, 134820, 134820, 134830, 134850, 134850, 181600, 189800, 266300
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								S0410: 1, H0741: 1, H0645: 1, H0438: 1, H0497: 1, H0643: 1, H0632: 1, L0622: 1, H0575: 1, H0231: 1, H0009: 1, H0081: 1, H0014: 1, H0373: 1, S0366: 1, H0063: 1, S0440: 1, L0772: 1, L0764: 1, L0526: 1, L0541: 1, S0374: 1, S0148: 1, H0593: 1, S0126: 1, H0666: 1, S0328: 1, H0710: 1, H0522: 1, H0696: 1, S0206: 1, L0740: 1, L0749: 1, L0753: 1, L0758: 1, H0445: 1, S0434: 1, S0436: 1, S0026: 1 and H0721: 1.										
HEAAY09	992678	247	40 - 390	2422				H0369: 1 and H0529: 1.	13q14	109543, 600631, 601499								
HPDRH78	992780	248	115 - 1371	2423				H0038: 6, L0663: 4, L0601: 4, S0442: 3, L0157: 3, L0770: 3, L0665: 3, S0436: 3, H0341: 2, H0125: 2, H0360: 2, H0318: 2, H0328: 2, H0615: 2,										



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HLMHG68	992900	249	19 - 774	2424	Gln-2 to Ala-8, Asn-18 to Pro-28, Ala-129 to Asp-135, Ser-161 to Ser-171, Val-242 to Arg-250.	AR055: 28, AR039: 26, AR060: 21, AR033: 20, AR052: 17, AR089: 16, AR096: 16, AR104: 15, AR053: 15, AR061: 11 L0751: 6, L0783: 4, H0672: 4, L0805: 2, L0752: 2, L0758: 2, H0657: 1, H0255: 1, H0638: 1, S0418: 1, S0442: 1, H0351: 1, H0587: 1, H0256: 1,	L0512: 1, L0783: 1, L0382: 1, L0532: 1, L0666: 1, S0374: 1, L0438: 1, H0520: 1, H0593: 1, H0690: 1, H0682: 1, H0658: 1, S0380: 1, S0044: 1, S0146: 1, S0406: 1, S3012: 1, S0027: 1, S0028: 1, L0746: 1, L0777: 1, L0731: 1, S0031: 1, S0434: 1, L0599: 1, H0668: 1, H0665: 1, S0276: 1, H0423: 1, S0424: 1, UNKWN: 1 and L0600: 1.		
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								L0623: 1, H0014: 1, H0051: 1, S0388: 1, H0688: 1, H0428: 1, H0424: 1, H0213: 1, H0401: 1, H0111: 1, H0617: 1, H0163: 1, H0063: 1, H0551: 1, T0041: 1, S0002: 1, L0764: 1, L0648: 1, L0662: 1, L0650: 1, L0774: 1, L0523: 1, L0378: 1, L0655: 1, L4501: 1, H0690: 1, H0659: 1, H0658: 1, H0521: 1, H0436: 1, L0777: 1 and L0601: 1.			
HODFO57	992973	250	2 - 811	2425	Trp-31 to Thr-39, Asn-71 to Gln-76, Pro-134 to Thr-150, Lys-238 to Lys-243.						
HOCpZ44	993380	251	139 - 540	2426	Arg-1 to Glu-6, Arg-52 to Ala-58, Phe-72 to Leu-79, Gly-88 to Glu-93, Tyr-124 to Arg-134.					L0518: 4, S0356: 3, H0617: 3, L0777: 3, H0486: 2, H0544: 2, H0545: 2, H0373: 2, H0547: 2, H0660: 2, L0757: 2, L0604: 2, H0423: 2, H0656: 1, H0341: 1, H0484: 1, H0483: 1, H0661: 1, S0360: 1, S0045: 1,	

HPAMU38	993403	252	69 - 821	2427	Gly-23 to Lys-28, Ser-37 to Gly-42, Lys-90 to Asp-101, Glu-175 to Phe-182, Glu-245 to Thr-251.	S0132: 1, S0300: 1, H0411: 1, H0438: 1, H0586: 1, H0574: 1, T0109: 1, H0156: 1, H0318: 1, H0251: 1, H0014: 1, T0079: 1, H0615: 1, T0023: 1, H0674: 1, S0036: 1, H0038: 1, H0040: 1, H0616: 1, T0067: 1, T0042: 1, L0475: 1, S0422: 1, H0529: 1, H0520: 1, H0682: 1, L0740: 1, L0749: 1, L0758: 1, L0759: 1, L0588: 1, L0362: 1, S0276: 1, S0196: 1, H0543: 1 and H0506: 1.		
						L0439: 8, L0774: 4, L0731: 4, H0622: 3, H0617: 3, S0002: 3, L0662: 3, L0438: 3, L0777: 3, S0134: 2, L0717: 2, H0370: 2, H0052: 2, H0596: 2, L0163: 2, H0163: 2, L0769: 2, L0768: 2, L0766: 2, L0666: 2, H0682: 2, L0740: 2, L0752: 2, L0757: 2,		

HNGGK47	993602	253	265 - 372	2428	Trp-26 to Lys-36.	L0759: 2, L0605: 2, S0040: 1, H0583: 1, S0001: 1, S0282: 1, H0255: 1, H0669: 1, H0662: 1, S0354: 1, S0278: 1, S6022: 1, H0549: 1, S6014: 1, H0438: 1, H0427: 1, H0618: 1, S0010: 1, S0049: 1, H0150: 1, H0009: 1, H0050: 1, H0012: 1, H0620: 1, H0057: 1, S0388: 1, H0252: 1, T0067: 1, H0488: 1, H0646: 1, S0142: 1, L0770: 1, L0761: 1, L0648: 1, L0649: 1, L0803: 1, L0375: 1, L0776: 1, L0659: 1, L0783: 1, L0665: 1, H0144: 1, H0519: 1, H0593: 1, H0690: 1, H0518: 1, L0611: 1, S3012: 1, L0754: 1, L0747: 1, L0755: 1, L0758: 1, H0653: 1, H0665: 1, S0276: 1 and H0422: 1.	AR055: 8, AR033: 6, AR089: 6, AR060: 6,		
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HODGN51	993754	254	94 - 342	2429	Lys-12 to Ser-18, Lys-20 to Lys-25, Thr-38 to His-43, Lys-53 to Cys-64.		H0615: 3			
HODCT60	993806	255	212 - 559	2430	Ile-7 to Trp-17, Asn-54 to Lys-64, Thr-85 to Met-91.		S0001: 1, H0328: 1 and H0615: 1.			
HAQBV81	993918	256	3 - 623	2431	Gln-1 to Arg-7, Gly-18 to Thr-24, Glu-26 to Glu-32, His-76 to Thr-88, Gln-122 to His-129, Pro-184 to Glu-190.		L0809: 7, L0758: 7, L0754: 5, S0007: 4, L0662: 4, L0794: 4, L0665: 4, H0333: 3, L0769: 3, L0761: 3, L0768: 3, L0803: 3, L0439: 3, H0395: 2, S0222: 2, H0039: 2, H0124: 2, S0036: 2, L0535: 2, L0666: 2, H0658: 2, L0751: 2, L0747: 2, L0759: 2, L0591: 2, L0485: 2, H0624: 1, H0716: 1,			

						H0295: 1, H0402: 1, S0418: 1, S0442: 1, S0132: 1, H0619: 1, H0415: 1, H0586: 1, L0623: 1, H0486: 1, H0013: 1, S0280: 1, L0021: 1, H0618: 1, H0318: 1, H0052: 1, H0251: 1, H0123: 1, H0050: 1, H0012: 1, S0051: 1, H0179: 1, H0615: 1, T0006: 1, H0673: 1, H0135: 1, H0040: 1, H0087: 1, H0264: 1, H0100: 1, L0763: 1, L5565: 1, L0667: 1, L0772: 1, L0644: 1, L0775: 1, L0375: 1, L0805: 1, L0655: 1, L0659: 1, L0526: 1, L0663: 1, S0052: 1, H0682: 1, H0660: 1, S0028: 1, L0743: 1, L0750: 1, L0756: 1, L0779: 1, L0777: 1, L0755: 1, L0592: 1, H0136: 1 and S0424: 1.				
HDTGF49	993931	257	1040 - 1174	2432		H0486: 2, H0171: 1, H0657: 1, S0360: 1,				

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HSKGR42	994234	259	126 - 410	2434	Asp-8 to Glu-16, Thr-24 to Lys-35, Asn-37 to Glu-44, Leu-65 to Asp-95.	H0519: 1 and S3014: 1.		
HOEBQ85	994356	260	1065 - 706	2435		L0747: 4, L0758: 3, L0794: 2, L0649: 2, L0749: 2, L0759: 2, H0624: 1, H0333: 1, L0598: 1, L0773: 1, L0661: 1, L4501: 1, S0126: 1, H0682: 1, S0328: 1, H0521: 1, L0748: 1, L0750: 1, L0780: 1, L0755: 1 and S0436: 1.		
HOPIG01	994536	261	1390 - 257	2436	Ala-41 to Ser-46, Gly-57 to Gly-62, Glu-91 to Asn-111, Gln-113 to Pro-120, Val-128 to Ser-133, His-142 to Arg-149, Thr-177 to Leu-184, Arg-206 to Ile-214, Phe-261 to Trp-270, Asn-298 to Phe-305, Gln-315 to Gly-320.	H0052: 25, T0006: 15, L0596: 12, S0222: 11, H0009: 10, L0753: 10, H0441: 9, L0439: 9, L0752: 9, S0358: 8, H0253: 8, H0618: 7, H0231: 7, L0769: 7, H0144: 7, S0374: 7, H0550: 6, L0775: 6, L0745: 6, L0747: 6, S0624: 5, H0597: 5, H0178: 5, S0388: 5, S0051: 5, H0399: 5, L0750: 5, L0731: 5, S0007: 4, H0351: 4,	14q32	123270, 245200, 251600, 270100, 276900

S0049: 4, H0204: 4, H0100: 4, L0509: 4, L0542: 4, L0783: 4, L0742: 4, L0746: 4, L0777: 4, L0366: 4, S0300: 3, H0261: 3, H0549: 3, H0497: 3, H0156: 3, S0010: 3, H0085: 3, N0006: 3, S0003: 3, S0036: 3, H0641: 3, L0770: 3, L0499: 3, L0776: 3, L0659: 3, L0665: 3, H0519: 3, H0684: 3, L0756: 3, L0758: 3, L0608: 3, S0424: 3, H0506: 3, H0624: 2, H0170: 2, S6026: 2, H0592: 2, S0346: 2, H0196: 2, H0235: 2, H0596: 2, H0150: 2, H0103: 2, S0050: 2, H0201: 2, T0010: 2, H0213: 2, H0674: 2, L0455: 2, H0038: 2, L0764: 2, L0766: 2, L0375: 2, L0782: 2, L0528: 2, L0666: 2, L0438: 2, H0520: 2, H0672: 2, S0044: 2,					
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	S0028: 2, L0744: 2, S0260: 2, H0685: 1, S0110: 1, H0176: 1, S0442: 1, S0354: 1, S0360: 1, S0410: 1, H0411: 1, H0369: 1, H0431: 1, H0438: 1, H0333: 1, L0623: 1, H0013: 1, H0069: 1, H0427: 1, H0599: 1, H0434: 1, H0251: 1, H0183: 1, H0263: 1, H0205: 1, H0232: 1, H0545: 1, H0065: 1, H0569: 1, H0172: 1, H0081: 1, H0012: 1, H0620: 1, H0014: 1, S0362: 1, L0163: 1, H0051: 1, H0408: 1, S6028: 1, H0266: 1, H0688: 1, H0428: 1, H0424: 1, H0617: 1, H0673: 1, H0169: 1, L0456: 1, H0135: 1, H0059: 1, H0102: 1, S0038: 1, S0112: 1, H0494: 1, H0130: 1, H0529: 1, L0369: 1, L0520: 1, L0762: 1, L0500: 1, L0638: 1,					
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HKBAK06	994596	262	213 - 410	2437	Asn-1 to Arg-7, Ser-26 to Arg-31, Gln-36 to Trp-41, Pro-59 to Lys-66.	L0627: 1, L0372: 1, L0646: 1, L0363: 1, L0768: 1, L0364: 1, L0803: 1, L0774: 1, L0784: 1, L0805: 1, L0653: 1, L0657: 1, L0526: 1, L0384: 1, L0809: 1, L0530: 1, L0368: 1, L0664: 1, H0547: 1, H0689: 1, H0682: 1, H0659: 1, H0660: 1, L0355: 1, S0378: 1, S3012: 1, S3014: 1, L0741: 1, L0748: 1, L0751: 1, L0786: 1, L0757: 1, S0031: 1, H0445: 1, L0593: 1, L0595: 1, S0106: 1, S0011: 1, S0460: 1 and H0008: 1.	8q21	124080, 202010, 202010, 214400, 602476, 602667
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	S0026: 4, H0663: 3, H0413: 3, S0276: 3, H0685: 2, H0650: 2, H0393: 2, S0278: 2, H0392: 2, H0486: 2, H0535: 2, H0412: 2, S0440: 2, L0646: 2, L0764: 2, L0662: 2, L0768: 2, L0774: 2, L0793: 2, H0144: 2, S0374: 2, H0659: 2, S0152: 2, H0134: 2, L0743: 2, L0744: 2, L0588: 2, H0624: 1, H0265: 1, S0040: 1, S0358: 1, S0408: 1, S0045: 1, H0333: 1, H0250: 1, H0427: 1, H0041: 1, H0050: 1, L0471: 1, H0266: 1, H0328: 1, H0615: 1, H0031: 1, H0606: 1, H0212: 1, H0038: 1, H0634: 1, H0551: 1, H0488: 1, H0560: 1, H0625: 1, H0633: 1, H0647: 1, H0646: 1, S0422: 1, H0529: 1, L0762: 1, L0772: 1, L0643: 1, L0773: 1,					
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HKGCN61	994664	263	1016 - 486	2438	Pro-1 to Ser-8.	L0767: 1, L0364: 1, L0766: 1, L0775: 1, L0805: 1, L0776: 1, L0655: 1, L0518: 1, L0382: 1, L0666: 1, L0663: 1, H0711: 1, H0690: 1, H0682: 1, H0670: 1, S0380: 1, S0013: 1, H0696: 1, H0704: 1, H0631: 1, H0595: 1, L0592: 1, L0581: 1, L0594: 1, L0601: 1, H0668: 1, S0194: 1, H0543: 1 and H0422: 1.	L0748: 9, L0758: 6, L0775: 5, L0659: 4, L0779: 4, L0752: 4, S0360: 3, H0431: 3, H0014: 3, H0031: 3, H0641: 3, L0764: 3, L0776: 3, L0655: 3, L0666: 3, L0742: 3, L0757: 3, L0759: 3, H0657: 2, S0358: 2, H0581: 2, H0373: 2, H0615: 2, H0628: 2, H0616: 2, L0770: 2, L0766: 2, L0774: 2, L0375: 2, L0787: 2,	12q24.1	124200, 147440, 160781, 181405, 261600, 261600, 601406, 601620, 601621
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HTXDDY55	994699	264	2 - 289	2439		L0657: 1, L0656: 1, L0809: 1, L0647: 1, L0788: 1, L0790: 1, L0664: 1, L0665: 1, S0374: 1, H0519: 1, H0689: 1, H0682: 1, H0659: 1, H0672: 1, H0651: 1, S0330: 1, H0539: 1, S0380: 1, H0522: 1, H0696: 1, S0028: 1, S0206: 1, L0745: 1, L0749: 1, L0780: 1, L0755: 1, H0445: 1, L0605: 1, L0366: 1 and H0423: 1.		
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HFOYI37	994776	265	19 - 513	2440	Gly-18 to Gly-28, Arg-30 to Lys-51, Ala-81 to Ala-87, Lys-157 to Ser-165.	H0550: 1, H0586: 1, H0025: 1, H0318: 1, H0457: 1, H0266: 1, H0188: 1, H0252: 1, H0328: 1, H0428: 1, L0055: 1, H0135: 1, H0040: 1, H0551: 1, H0494: 1, H0560: 1, S0150: 1, S0344: 1, L0625: 1, L0761: 1, L0553: 1, L0662: 1, L0649: 1, L0803: 1, L0650: 1, L0805: 1, L0606: 1, H0519: 1, H0684: 1, H0435: 1, H0660: 1, H0648: 1, S0380: 1, S0152: 1, H0696: 1, L0786: 1, L0780: 1, L0755: 1, L0596: 1, H0216: 1 and H0543: 1.			
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HOFNLI18	994874	266	1 - 405	2441	Ser-26 to Pro-33.	AR039: 15, AR089: 8, AR033: 8, AR096: 8, AR053: 7, AR052: 7, AR060: 5, AR055: 5, AR104: 5, AR061: 3 H0415: 1 and H0414: 1.		
HOFNT57	994954	267	3 - 1175	2442	Asp-1 to Gly-15.			
HCBMT45	994993	268	1670 - 360	2443	Ser-157 to Asn-167, Asn-192 to Lys-198.	L0731: 8, L0757: 6, L0794: 5, L0809: 5, L0770: 3, L0803: 3, L0789: 3, L0750: 3, L0759: 3, H0038: 2, L0769: 2, L0805: 2, L0659: 2, L0665: 2, S0037: 2, L0742: 2, L0743: 2, L0748: 2, L0754: 2, L0747: 2, L0758: 2, S0436: 2, L0599: 2, L0608: 2, H0624: 1, H0661: 1, H0638: 1, S0358: 1, H0728: 1, H0733: 1, H0586: 1, H0587: 1, H0642: 1, S0010: 1, H0052: 1, H0544: 1, H0046: 1, L0471: 1, H0083: 1, H0179: 1, H0252: 1, H0688: 1, H0617: 1, H0606: 1,		

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HATDZ56	995200	269	120 - 1154	2444	Thr-23 to Pro-34, Glu-39 to Asp-83, Asn-89 to Lys-99, Asp-118 to Asp- 128, Asn-135 to Glu-150, Glu-153 to Gly-168, Gly-181 to Thr-187, Arg-200 to Asp-205, Arg-273 to Ile-279, Thr-295 to Asp-300, Thr-316 to Cys-321.			L0438: 2, H0156: 1, H0004: 1, L0748: 1 and L0749: 1.		
HOCQI44	995229	270	2 - 520	2445	Ser-14 to Ala-21, Pro-80 to Tyr-85, Pro-99 to Gly-105,			L0771: 6, L0794: 4, L0748: 4, H0659: 3, L0749: 3, H0624: 2,	20	

					Lys-158 to Pro-173.	H0663: 2, S0360: 2, L0769: 2, L0764: 2, H0660: 2, L0779: 2, L0608: 2, L0601: 2, S0026: 2, S0418: 1, S0410: 1, H0393: 1, L0579: 1, L0471: 1, H0266: 1, H0252: 1, H0673: 1, H0090: 1, H0038: 1, H0087: 1, H0413: 1, H0538: 1, H0695: 1, L0761: 1, L0642: 1, L0648: 1, L0768: 1, L0766: 1, L0381: 1, L0775: 1, L0376: 1, L0378: 1, L0806: 1, L0657: 1, L0658: 1, L0788: 1, L0663: 1, H0690: 1, H0682: 1, H0631: 1, L0751: 1, L0754: 1, L0747: 1, L0758: 1, L0759: 1 and H0543: 1.			
HNOJG43	995562	271	1 - 1002	2446		S0440: 4, H0543: 4, H0656: 3, H0539: 3, H0521: 3, H0650: 2, H0341: 2, H0620: 2, H0355: 2, H0068: 2, T0041: 2, H0529: 2, L0439: 2, H0171: 1,			

HSPSB95	995590	272	2 - 838	2447	Pro-57 to Pro-64, Leu-137 to Ala-147, Ser-158 to Met-163.	S0114: 1, H0657: 1, S0356: 1, S0442: 1, S0354: 1, S0410: 1, H0580: 1, H0728: 1, S0046: 1, S0132: 1, S0476: 1, S0222: 1, H0610: 1, H0613: 1, H0600: 1, H0587: 1, H0013: 1, H0505: 1, H0318: 1, H0309: 1, H0046: 1, H0009: 1, L0471: 1, S0051: 1, H0356: 1, H0510: 1, S6028: 1, H0687: 1, H0292: 1, H0428: 1, H0708: 1, H0494: 1, H0560: 1, S0294: 1, S0210: 1, L0517: 1, L0647: 1, H0726: 1, H0547: 1, H0658: 1, H0670: 1, H0518: 1, S0152: 1, H0522: 1, S0044: 1, H0555: 1, S3014: 1, S0027: 1, L0753: 1, L0731: 1, L0362: 1, H0542: 1, H0423: 1 and H0506: 1.	L0755: 16, L0754: 14, L0591: 11, S0408: 9, H0441: 9, L0748: 9.	
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					Arg-239 to Phe-247, Leu-263 to Asn-268.	H0657: 7, L0776: 7, L0747: 7, H0135: 6, H0494: 6, L0649: 6, H0547: 6, L0439: 6, L0752: 6, L0758: 6, H0341: 5, H0046: 5, L0769: 5, L0771: 5, H0519: 5, L0731: 5, H0543: 5, S0134: 4, S0358: 4, S0360: 4, H0486: 4, H0083: 4, H0509: 4, L0774: 4, L0655: 4, L0438: 4, H0520: 4, L0777: 4, L0757: 4, H0265: 3, H0580: 3, S0132: 3, H0575: 3, H0581: 3, H0052: 3, L0471: 3, H0266: 3, H0687: 3, H0428: 3, H0551: 3, H0529: 3, L0517: 3, L0519: 3, L0666: 3, H0593: 3, H0658: 3, H0648: 3, H0521: 3, S0028: 3, L0742: 3, L0749: 3, L0597: 3, L0588: 3, L0589: 3, L0592: 3, L0485: 3, L0600: 3, H0624: 2, H0170: 2, S0418: 2,		
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HCORG29	995806	273	1475 - 714	2448	Gly-1 to Ala-15, Ala-38 to Asp-46, Thr-56 to Leu-63, Glu-77 to Gly-83, Ile-102 to Gly-111, Pro-120 to Gly-128, Pro-130 to Asp-143, Lys-197 to Ser-211, Pro-217 to Tyr-247.	H0444: 1, L0681: 1, S0011: 1, S0192: 1, S0276: 1 and H0542: 1, H0556: 4, S0027: 4, S0358: 3, H0318: 3, H0545: 3, L0776: 3, S0380: 3, L0439: 3, L0747: 3, H0265: 2, H0341: 2, H0661: 2, S0045: 2, H0351: 2, H0012: 2, H0039: 2, L0766: 2, S0374: 2, S0126: 2, S0330: 2, S0152: 2, S0314: 2, S0206: 2, L0748: 2, L0740: 2, L0749: 2, L0755: 2, H0423: 2, H0624: 1, L0615: 1, S0040: 1, H0294: 1, H0650: 1, H0657: 1, H0656: 1, H0484: 1, H0483: 1, H0255: 1, H0663: 1, S0418: 1, S0420: 1, S0356: 1, S0442: 1, S0360: 1, H0637: 1, H0580: 1, S0046: 1, S0132: 1, H0586: 1, H0486: 1, H0013: 1, H0042: 1, H0052: 1, H0596: 1,		
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HCRNO02	995894	274	537 - 319	2449	Phe-3 to Ala-9.	H0327: 1, S0388: 1, H0275: 1, H0083: 1, S0022: 1, S0214: 1, H0252: 1, H0604: 1, H0031: 1, H0628: 1, H0673: 1, H0135: 1, H0090: 1, H0591: 1, H0616: 1, H0551: 1, H0264: 1, H0623: 1, H0059: 1, H0494: 1, L0475: 1, H0561: 1, H0131: 1, S0344: 1, L0770: 1, L0769: 1, L0772: 1, L0804: 1, L0774: 1, L0655: 1, L0532: 1, H0144: 1, H0593: 1, H0659: 1, H0670: 1, H0704: 1, H0215: 1, S0406: 1, L0745: 1, L0596: 1, L0588: 1, S0026: 1, H0136: 1, S0276: 1, H0542: 1, H0543: 1 and S0460: 1.	S0356: 1 and L0780: 1. 8q21	124080, 202010, 202010, 214400, 602476, 602667
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HCBOI79	996247	275	42 - 701	2450	Pro-9 to Gln-15, Glu-37 to Ala-49, Glu-70 to Leu-78, Thr-99 to Thr-122, Leu-144 to Gln-150, Gln-161 to Arg-167.	H0670: 3, H0624: 1, H0661: 1, S0354: 1, S0360: 1, S0278: 1, H0559: 1, H0150: 1, H0024: 1, H0510: 1, H0551: 1, H0413: 1, S0328: 1, H0555: 1 and L0759: 1.		
HVCAB73	996337	276	84 - 1259	2451	Arg-4 to Gly-24, Lys-47 to Phe-55, Lys-61 to Ala-67, Gly-108 to Thr-114, Pro-184 to Pro-191, Pro-292 to Arg-299, Pro-355 to Glu-392.	H0046: 22, H0547: 15, L0748: 13, S0152: 9, H0013: 7, H0009: 7, H0031: 7, H0529: 7, H0519: 7, L0471: 6, H0024: 6, H0266: 6, H0090: 6, H0520: 6, H0542: 6, H0543: 6, H0521: 5, L0439: 5, H0422: 5, S0420: 4, H0373: 4, H0040: 4, H0494: 4, H0561: 4, L0747: 4, L0592: 4, L0593: 4, L0595: 4, S0026: 4, H0423: 4, H0556: 3, H0657: 3, H0656: 3, L0005: 3, S0354: 3, S0408: 3, H0580: 3, S0045: 3, S0046: 3, S0132: 3, S0278: 3, H0586: 3, T0110: 3, H0620: 3,		

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HSDJH04	996619	277	114 - 419	2452	Arg-1 to Ser-20.	L0731: 3, H0632: 1, H0052: 1, H0628: 1, L0766: 1, L0636: 1, L0545: 1, L0543: 1, H0658: 1, L0740: 1, L0750: 1, L0752: 1, S0260: 1 and H0293: 1.	11p15	108985, 186921, 602092			
HSOAN18	996804	278	630 - 409	2453	Val-1 to Asn-6.	L0755: 3, L0766: 2, L0794: 1, L0759: 1 and H0343: 1.					
HHEHF49	996874	279	698 - 222	2454		H0684: 38, H0703: 27, H0685: 23, H0717: 21,					

HCHCF36	996903	280	10 - 711	2455	Lys-43 to Tyr-48, Arg-73 to Arg-79, Pro-183 to Gly-188, Pro-192 to Ser-201.	H0688: 21, H0687: 19, H0542: 19, H0722: 15, H0699: 14, H0716: 12, H0725: 9, H0494: 8, H0696: 7, H0689: 5, H0555: 5, H0708: 4, H0545: 3, H0695: 3, H0723: 3, H0724: 3, H0683: 3, H0521: 3, H0686: 2, H0713: 2, H0580: 2, H0546: 2, H0509: 2, H0593: 2, H0710: 2, H0709: 2, H0543: 2, H0712: 2, H0650: 1, H0675: 1, H0602: 1, H0586: 1, H0510: 1, H0488: 1, H0560: 1, S0422: 1, H0698: 1, H0691: 1, H0690: 1, H0682: 1, H0694: 1 and S0424: 1.	19q13.1- q13.2	107741, 113900, 122720, 122720, 126340, 126391, 160900, 164731, 172400,
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HAHCK58	997127	281	1 - 228	2456	Glu-1 to Thr-9, Asn-17 to Ser-34.	L0748: 16, S0007: 7, H0360: 7, H0046: 6, L0803: 5, L0747: 5, L0771: 4, L0794: 4, L0731: 4, H0486: 3, L0666: 3, L0663: 3, L0665: 3, L0439: 3, L0758: 3, H0637: 2, H0261: 2, S0222: 2, H0052: 2, S0051: 2, H0622: 2, H0169: 2, L0598: 2, L0637: 2, H0144: 2, H0436: 2, L0754: 2, H0170: 1, S0134: 1, H0650: 1, S0116: 1, S0282: 1, S0418: 1, S0376: 1, H0580: 1, S0045: 1, H0393: 1, L0622: 1, L0623: 1, S0280: 1,			

HETJ06	997165	282	41 - 385	2457	Leu-6 to Ser-11.	S0026: 1 and H0293: 1, S0402: 1, S0360: 1,		
						L0021: 1, H0599: 1, H0318: 1, S0474: 1, H0150: 1, H0041: 1, H0050: 1, S0388: 1, H0271: 1, S0003: 1, H0673: 1, L0456: 1, H0135: 1, H0412: 1, H0056: 1, H0623: 1, S0386: 1, S0112: 1, H0494: 1, S0144: 1, S0344: 1, H0529: 1, L0763: 1, L0638: 1, L0646: 1, L0764: 1, L0766: 1, L0650: 1, L0375: 1, L0653: 1, L0776: 1, L0783: 1, L0543: 1, L0647: 1, L0787: 1, L0788: 1, L0664: 1, L0352: 1, H0547: 1, H0593: 1, H0690: 1, H0435: 1, H0670: 1, H0648: 1, H0672: 1, H0651: 1, H0539: 1, H0521: 1, H0522: 1, S3014: 1, S0027: 1, S0206: 1, L0759: 1, S0434: 1, L0595: 1, H0668: 1, S0026: 1 and H0293: 1.		

HAPOE30	997595	283	244 - 759	2458	Glu-6 to Trp-12, Leu-36 to Glu-57, Pro-74 to Asn-88, Ser-119 to Glu-131, Pro-139 to Asp-153.	H0046: 1, H0252: 1 and H0428: 1. L0777: 9, L0803: 5, L0748: 5, L0663: 4, L0754: 4, L0747: 4, L0753: 4, L0758: 4, L0766: 3, H0659: 3, L0763: 2, L0519: 2, L0665: 2, S0126: 2, L0602: 2, L0439: 2, L0750: 2, T0002: 1, H0686: 1, S0040: 1, S0116: 1, S0222: 1, H0575: 1, H0122: 1, H0004: 1, H0309: 1, L0040: 1, L0163: 1, H0028: 1, H0615: 1, H0040: 1, L0770: 1, L0764: 1, L0773: 1, L0662: 1, L0794: 1, L0774: 1, L0805: 1, L0655: 1, L0657: 1, L0526: 1, L0809: 1, L0789: 1, L0666: 1, L0664: 1, T0068: 1, H0670: 1, H0672: 1, L0744: 1, L0740: 1, L0751: 1, L0749: 1, L0779: 1, L0752: 1, L0731: 1, L0759: 1,		
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HRGDC33	997862	284	229 - 738	2459			L0591: 1 and S0011: 1, H0134: 1 and L0756: 1.		
HMTMB91	997873	285	1037 - 1174	2460	Lys-1 to Arg-46.		L0794: 11, L0803: 10, H0013: 6, H0090: 6, L0766: 6, L0663: 6, L0731: 6, H0457: 5, H0328: 5, L0493: 5, L0666: 5, L0777: 5, L0759: 5, L0754: 4, L0779: 4, H0305: 3, L0665: 3, H0144: 3, H0670: 3, H0696: 3, L0591: 3, H0657: 2, S0442: 2, S0360: 2, L0717: 2, H0600: 2, H0156: 2, H0590: 2, H0024: 2, H0615: 2, L0483: 2, T0042: 2, S0422: 2, H0529: 2, L0625: 2, L0805: 2, L0776: 2, L0655: 2, L0527: 2, S0374: 2, H0521: 2, H0436: 2, L0745: 2, L0588: 2, L0581: 2, L0361: 2, H0542: 2, S0424: 2, H0624: 1, H0171: 1, H0686: 1, T0049: 1, H0650: 1, H0656: 1,		

		H0341: 1, H0589: 1, S0418: 1, S0356: 1, S0358: 1, S0376: 1, S0408: 1, H0329: 1, S0045: 1, H0369: 1, H0370: 1, H0455: 1, H0602: 1, H0586: 1, H0574: 1, H0486: 1, S0280: 1, L0021: 1, H0575: 1, H0036: 1, H0318: 1, H0263: 1, T0115: 1, H0545: 1, L0157: 1, H0123: 1, H0015: 1, S0388: 1, S0051: 1, H0375: 1, H0271: 1, H0188: 1, S0003: 1, H0688: 1, H0644: 1, L0055: 1, H0163: 1, H0038: 1, H0634: 1, H0551: 1, L0475: 1, S0352: 1, H0652: 1, S0208: 1, L0640: 1, L0763: 1, L0500: 1, L0769: 1, L0646: 1, L0648: 1, L0662: 1, L0498: 1, L0804: 1, L0650: 1, L0784: 1, L0806: 1, L0653: 1, L0606: 1, L0515: 1, L0659: 1,			
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HFAAD07	998059	286	238 - 957	2461	Ser-62 to Thr-67, Val-74 to Cys-79, Thr-118 to Gln-132, Glu-204 to Asp-219, Pro-225 to Arg-235.		L0809: 5, L0439: 4, L0591: 2, S6024: 1, H0341: 1, H0346: 1, S0356: 1, S0358: 1, S0360: 1, L0040: 1, H0457: 1, H0494: 1, L0518: 1, L0666: 1, L0665: 1, S0330: 1, H0521: 1, L0752: 1, L0731: 1, L0758: 1, L0590: 1 and L0599: 1.			
HE8TG67	998517	287	1211 - 1360	2462	Pro-24 to His-31.			3q28		165500, 600700

HACNC39	998533	288	36 - 380	2463	Glu-14 to Lys-25.	L0748: 9, L0769: 7, L0776: 6, L0747: 6, L0768: 5, L0775: 5, L0750: 5, S0358: 4, S0144: 4, L0763: 4, L0731: 4, L0757: 4, L0588: 4, H0657: 3, S0046: 3, H0545: 3, S0438: 3, S0422: 3, L0770: 3, L0517: 3, S0406: 3, L0755: 3, T0049: 2, H0341: 2, S0408: 2, S0410: 2, H0580: 2, S0222: 2, H0586: 2, L0622: 2, T0109: 2, H0083: 2, H0551: 2, H0100: 2, H0396: 2, S0440: 2, S0210: 2, L0520: 2, L0764: 2, L0767: 2, L5574: 2, L0540: 2, L0518: 2, L0809: 2, S0330: 2, S0380: 2, L0758: 2, S0031: 2, H0543: 2, H0170: 1, H0685: 1, H0716: 1, H0295: 1, S0212: 1, S0110: 1, S0282: 1, S0420: 1, S0444: 1, H0351: 1, H0411: 1,		
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S0278: 1, H0643: 1, L0623: 1, H0427: 1, H0575: 1, H0004: 1, T0048: 1, T0001: 1, H0196: 1, H0009: 1, H0023: 1, T0003: 1, S0388: 1, S0051: 1, H0266: 1, H0628: 1, H0124: 1, H0708: 1, H0163: 1, H0038: 1, H0040: 1, T0067: 1, H0413: 1, H0494: 1, H0625: 1, L0065: 1, H0130: 1, H0641: 1, H0633: 1, H0743: 1, L0761: 1, L0772: 1, L0646: 1, L0521: 1, L0766: 1, L0561: 1, L0774: 1, L0523: 1, L0559: 1, L0634: 1, L0783: 1, L0663: 1, L0664: 1, L0565: 1, H0547: 1, H0690: 1, H0666: 1, H0672: 1, H0710: 1, S0152: 1, S0118: 1, S3014: 1, S0027: 1, S0032: 1, L0751: 1, L0752: 1, S0308: 1, L0603: 1, H0136: 1, H0423: 1 and
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HCOQP78	998901	289	45 - 989	2464	Thr-10 to Ala-18, Pro-56 to His-64, Pro-66 to Leu-74, Ser-81 to Asp-86, Glu-93 to Trp-101, Leu-143 to Gln-151, Pro-162 to Asp-171, Thr-216 to Asp-224, Pro-235 to Gln-246, Lys-258 to Gly-268, Trp-283 to Gly-295.	S0396: 1. H0494: 4, L0794: 3, H0670: 2, L0751: 2, H0661: 1, H0602: 1, H0587: 1, H0014: 1, H0688: 1, L0376: 1, L0806: 1, L0657: 1 and L4501: 1.	19q13	109560, 205900, 600652, 600757
HCGMA67	998905	290	2 - 664	2465		H0521: 22, L0601: 8, H0266: 7, S0126: 7, L0748: 6, H0556: 4, S0356: 4, S0358: 4, H0052: 4, L0771: 4, L0655: 4, L0777: 4, H0599: 3, H0581: 3, H0046: 3, H0615: 3, H0038: 3, H0616: 3, S0144: 3, L0766: 3, L0664: 3, L0665: 3, H0547: 3, S014: 3, L0758: 3, L0759: 3, L0596: 3, H0542: 3, H0423: 3, H0295: 2, T0049: 2, S0360: 2, H0580: 2, S0045: 2, S0132: 2, H0393: 2,		

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HSKHK19	998968	291	2 - 673	2466	Ala-1 to Arg-26, Thr-32 to Gln-37.	L0605: 1, L0581: 1, L0595: 1, L0603: 1, H0665: 1, S0192: 1, H0543: 1 and H0422: 1.  L0769: 7, L0751: 6, L0666: 4, L0749: 3, H0030: 2, S0002: 2, L0805: 2, L0653: 2, H0657: 1, H0675: 1, S0007: 1, L0717: 1, H0635: 1, L0021: 1, H0068: 1, H0494: 1, L0638: 1, L0639: 1, L0772: 1, L0764: 1, L0773: 1, L0648: 1, L0803: 1, L0784: 1, L0806: 1, L0657: 1, H0658: 1, S3014: 1, L0747: 1, L0750: 1, L0780: 1, L0759: 1, L0588: 1, L0601: 1 and H0542: 1.	7q35-q36	118425, 118425, 118425, 142335, 152427, 163729, 176450, 180105, 190605, 276000, 276000, 600510, 600725
HAGGR59	999124	292	30 - 596	2467	Asp-20 to Ile-37, Arg-63 to Met-71, Gly-80 to Gly-95, Lys-98 to Thr-162.	H0556: 1, H0650: 1, S0001: 1, S0376: 1, S0346: 1, H0328: 1, L0800: 1, L0649: 1, H0689: 1, H0660: 1 and H0445: 1.		
HOPKS83	999148	293	419 - 1894	2468	Pro-72 to Tyr-80, Pro-98 to Ser-108.	S0278: 22, L0439: 20, L0665: 16, L0438: 15,		

Thr-132 to Gly-146, Pro-170 to Ala-177, Ser-265 to Pro-280, Pro-303 to Asp-309, Asp-349 to Ala-354, Arg-387 to Ser-393, Asn-434 to Tyr-439, Gln-452 to Gly-457, Asp-469 to Val-485.	L0748: 15, L0747: 15, H0521: 11, L0743: 10, L0759: 10, S0144: 9, L0666: 9, L0659: 8, L0741: 8, S0049: 7, S0002: 7, H0547: 7, S0126: 7, S0222: 6, H0052: 6, H0457: 6, S0036: 6, H0539: 6, L0731: 6, L0757: 6, H0575: 5, H0012: 5, H0100: 5, L0649: 5, L0742: 5, L0751: 5, S0046: 4, H0333: 4, H0581: 4, H0188: 4, H0424: 4, L0770: 4, L0764: 4, L0662: 4, H0555: 4, L0758: 4, L0601: 4, H0295: 3, H0549: 3, S0290: 3, H0618: 3, H0086: 3, H0620: 3, H0024: 3, H0551: 3, L0526: 3, L0663: 3, H0670: 3, H0672: 3, L0755: 3, H0255: 2, S0418: 2, H0580: 2, H0393: 2, H0351: 2, H0550: 2, H0253: 2, H0545: 2, H0123: 2, H0290: 2,
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							S0390: 1, S3014: 1, L0754: 1, L0752: 1, H0445: 1, H0668: 1, H0653: 1, H0665: 1, S0276: 1, H0542: 1, S0458: 1 and H0352: 1.		
HE8CY70	999157	294	691 - 1368	2469		Lys-117 to Pro-123, Asp-132 to Lys-137, Ala-153 to Met-158, Ser-166 to Asp-172, Lys-184 to Tyr-190, Glu-199 to Lys-205.	H0441: 3, H0672: 2, H0555: 2, H0208: 1, S6016: 1, S0222: 1, H0586: 1, H0013: 1, S0049: 1, H0052: 1, H0545: 1, H0046: 1, S0051: 1, T0023: 1, H0617: 1, H0264: 1, H0647: 1, L0438: 1, L0751: 1, L0756: 1 and H0506: 1.		
HPCTI53	999243	295	1 - 474	2470		Pro-1 to Pro-6, Thr-134 to Gln-140, Tyr-142 to Arg-150.	H0052: 45, H0384: 21, L0748: 20, S0222: 14, S0010: 9, H0441: 6, S0049: 6, L0456: 6, S0346: 5, L0769: 5, S6028: 4, H0428: 4, L0770: 4, L0638: 4, L0438: 4, H0659: 4, L0750: 4, L0753: 4, H0619: 3, S0300: 3, T0010: 3, S0036: 3, H0624: 2, H0717: 2, S6024: 2, H0156: 2,	Xq11	313700, 313700, 313700, 313700, 313700



		H0036: 2, H0051: 2, S0388: 2, S0051: 2, H0071: 2, H0083: 2, T0006: 2, L0455: 2, L0598: 2, L0796: 2, L5575: 2, L0659: 2, L0665: 2, H0144: 2, H0547: 2, L0743: 2, L0439: 2, L0747: 2, L0749: 2, L0731: 2, L0592: 2, L0604: 2, H0171: 1, S0282: 1, S0029: 1, S0400: 1, S0360: 1, S0007: 1, S6026: 1, H0261: 1, H0431: 1, H0455: 1, H0438: 1, H0013: 1, S0280: 1, H0575: 1, H0434: 1, H0194: 1, L0040: 1, H0327: 1, H0150: 1, H0178: 1, H0569: 1, H0123: 1, H0012: 1, S0050: 1, H0015: 1, H0107: 1, H0375: 1, H0615: 1, H0424: 1, H0090: 1, H0412: 1, H0059: 1, T0069: 1, H0100: 1, T0041: 1, T0042: 1, L0475: 1, L0637: 1,				
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HOPKN50	999313	296	65 - 1582	2471	Glu-47 to Phe-69, Lys-76 to Lys-82, Gly-87 to Ser-98, Glu-107 to Asp-117, Leu-171 to Val-180.			H0341: 2, H0013: 2, L0471: 2, H0266: 2, H0144: 2, L0591: 2, S0011: 2, H0624: 1, H0657: 1, H0151: 1, H0083: 1, H0328: 1, H0316: 1, H0591: 1, H0616: 1, H0412: 1, H0561: 1, S0210: 1, H0684: 1, S0152: 1, L0748: 1, L0749: 1, S0026: 1, H0542: 1 and H0543: 1.			
HAPAI17	999778	297	2 - 115	2472	Val-13 to Gln-26.			H0042: 1, L0769: 1 and H0659: 1.			
HHAUV59	999808	298	14 - 715	2473	Glu-1 to Gly-12, Lys-32 to Arg-37, Asn-45 to Ser-58, Asp-82 to Gln-97, Gly-136 to Gln-142,			L0761: 3, H0740: 2, L0803: 2, L0718: 2, H0624: 1, S0418: 1, H0208: 1, H0013: 1, H0427: 1, H0544: 1,			

					Pro-176 to Pro-199, Val-219 to Pro-226.		H0622: 1, L0769: 1, L0789: 1, H0547: 1, H0519: 1, L0750: 1 and S0434: 1.		
HTXLL31	1000315	299	1 - 747	2474	Ile-5 to Lys-10, Glu-47 to Leu-57, Glu-144 to Pro-151, Lys-212 to Asn-217, Pro-219 to Leu-228.		L0803: 6, L0731: 6, L0596: 6, L0665: 5, H0591: 3, L0794: 3, L0804: 3, L0748: 3, L0777: 3, L0717: 2, H0586: 2, L0471: 2, H0622: 2, H0641: 2, L0771: 2, L0662: 2, L0766: 2, L0649: 2, L0664: 2, H0682: 2, H0670: 2, H0539: 2, H0518: 2, L0758: 2, L0759: 2, H0445: 2, S0242: 2, H0422: 2, H0171: 1, H0556: 1, H0657: 1, H0656: 1, H0341: 1, S0282: 1, S0354: 1, S0360: 1, H0574: 1, H0427: 1, H0575: 1, H0057: 1, H0014: 1, H0551: 1, H0646: 1, H0529: 1, L0763: 1, L0761: 1, L0764: 1, L5574: 1, L0775: 1, L0805: 1, L0776: 1, L0657: 1,		

							L0659: 1, L0789: 1, L0666: 1, H0144: 1, H0435: 1, H0658: 1, S0328: 1, S0330: 1, H0522: 1, S0037: 1, L0747: 1, L0755: 1, H0707: 1 and H0506: 1.			
HDPUH64	1000339	300	2 - 499	2475			H0615: 5, L0766: 4, H0272: 1, H0560: 1, H0521: 1 and H0677: 1.			
HTTHS93	1000424	301	725 - 1024	2476			S0360: 2, H0266: 2, S0330: 2, L0748: 2, H0556: 1, S0442: 1, L0471: 1, H0024: 1, H0634: 1, H0494: 1, H0560: 1, L0800: 1, L0803: 1, H0435: 1, H0651: 1, H0521: 1, H0522: 1, S0406: 1, L0747: 1 and S0452: 1.			
HMVCG79	1000582	302	3 - 854	2477	Thr-40 to Arg-46, Leu-59 to Ser-68, Leu-236 to Thr-241, Asp-278 to His-284.		AR089: 6, AR060: 5, AR033: 4, AR104: 4, AR096: 4, AR039: 3, AR052: 3, AR053: 3, AR061: 2, AR055: 1 S0002: 4, S0206: 4, L0748: 2, L0740: 2, L0777: 2, S0212: 1, H0661: 1, S0278: 1, H0370: 1, H0123: 1,			

							S0142: 1, L0800: 1, L0790: 1, H0539: 1, H0555: 1, S3014: 1, S0028: 1, L0754: 1 and L0759: 1.			
HODHK20	1000669	303	52 - 648	2478		Gly-2 to Ile-8, Glu-13 to Ser-25, Glu-41 to Gly-52.	H0615: 2, S0376: 1, L0766: 1 and L0754: 1.			
HCHMO53	1000875	304	2 - 661	2479		Pro-2 to Gly-25, Gly-40 to Lys-62, Arg-73 to Ala-80, Phe-179 to Arg-184, Pro-190 to His-195, Glu-211 to Ala-219.	AR060: 16, AR052: 8, AR053: 7, AR033: 6, AR104: 6, AR089: 6, AR039: 5, AR061: 5, AR096: 4, AR055: 2 L0776: 8, L0731: 8, S0438: 6, L0752: 6, H0677: 6, S0410: 5, S0440: 5, L0764: 5, L0749: 5, T0049: 4, S0132: 4, L0766: 4, H0648: 4, L0759: 4, L0519: 3, H0684: 3, L0748: 3, L0747: 3, L0757: 3, S0358: 2, S0444: 2, T0006: 2, L0775: 2, L0806: 2, S0152: 2, L0751: 2, L0750: 2, L0758: 2, S0436: 2, H0423: 2, H0624: 1, H0556: 1, H0157: 1, H0295: 1,			

HFKKG84	1001066	305	1 - 666	2480	Gly-33 to Trp-52, Tyr-104 to Ser-110,	AR096: 32, AR104: 27, AR089: 24, AR060:
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					Ile-150 to Ala-157, Ser-159 to Ala-171, Gly-178 to Gly-186, Ala-188 to Ser-204.	22, AR061: 15, AR055: 13 L0766: 10, L0779: 5, L0770: 4, L0803: 4, L0769: 3, L0761: 3, L0747: 3, H0170: 2, H0686: 2, H0617: 2, L0800: 2, L0794: 2, L0806: 2, L0776: 2, L0754: 2, H0685: 1, H0295: 1, H0656: 1, H0402: 1, S0418: 1, H0486: 1, L0471: 1, H0620: 1, H0083: 1, H0688: 1, H0135: 1, H0625: 1, S0422: 1, L0772: 1, L0646: 1, L0643: 1, L0644: 1, L0764: 1, L0768: 1, L0807: 1, L0783: 1, H0522: 1, L0750: 1, L0777: 1, L0755: 1, L0731: 1, S0026: 1 and S0424: 1.			
HOFMT20	1001333	306	127 - 267	2481	Ser-5 to Glu-12.	H0415: 2			
HPAMB04	1001695	307	40 - 621	2482	Lys-106 to Leu-111.	H0641: 38, S0360: 10, L0731: 8, H0542: 7, H0422: 7, H0545: 6, H0521: 6, L0750: 6, H0423: 6, H0617: 5,			

	H0689: 5, H0083: 4, H0494: 4, L0382: 4, H0682: 4, H0435: 4, L0747: 4, L0755: 4, H0159: 3, H0295: 3, H0255: 3, H0039: 3, H0087: 3, L0770: 3, L0768: 3, L0809: 3, S0328: 3, L0601: 3, H0402: 2, H0638: 2, S0132: 2, H0250: 2, H0581: 2, H0544: 2, H0546: 2, H0086: 2, L0769: 2, L0800: 2, L0773: 2, L0648: 2, L0665: 2, H0690: 2, H0659: 2, H0666: 2, H0522: 2, L0751: 2, L0754: 2, L0757: 2, L0596: 2, L0587: 2, L0591: 2, L0362: 2, H0556: 1, H0584: 1, H0685: 1, S0040: 1, H0294: 1, H0657: 1, H0663: 1, H0664: 1, H0125: 1, S0420: 1, S0376: 1, H0489: 1, H0580: 1, S0045: 1, H0069: 1, S0346: 1, H0251: 1, H0530: 1,				
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HODEK48	1001901	308	368 - 682	2483	Thr-2 to Gln-8, Glu-20 to Gly-26.		H0615: 2, L0794: 2 and H0266: 1.			
HVVCB28	1001954	309	328 - 807	2484	Ile-8 to Gly-13, Pro-62 to Phe-68, Gly-95 to Gly-101, Ser-108 to Val-114, Glu-129 to Leu-146.		H0617: 43, H0341: 38, S0046: 37, L0747: 34, S0126: 30, L0507: 29, L0500: 29, S0007: 28, H0087: 28, L0775: 28, L0509: 28, H0594: 27, H0333: 24, L0772: 24, S0132: 23, H0620: 23, L0502: 23, L0768: 21,	19q13.2	107741, 113900, 122720, 122720, 126340, 126391, 160900, 164731, 173850,	

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HCOOS01	1002071	310	3 - 701	2485				H0128: 1, T0042: 1, H0280: 1, L0475: 1, H0334: 1, H0625: 1, H0366: 1, H0509: 1, H0130: 1, H0641: 1, H0633: 1, H0026: 1, L0371: 1, L0646: 1, L0648: 1, L0364: 1, L0522: 1, L0784: 1, L0523: 1, L0655: 1, L0606: 1, L0558: 1, L0540: 1, L0526: 1, L0384: 1, L0544: 1, L0528: 1, L0663: 1, L0664: 1, S0216: 1, S0296: 1, H0682: 1, H0648: 1, S0330: 1, H0521: 1, H0522: 1, S0146: 1, H0187: 1, L0740: 1, L0749: 1, L0752: 1, H0343: 1, L0592: 1, L0593: 1, H0668: 1, H0653: 1, H0667: 1, S0194: 1, H0542: 1, S0424: 1 and H0293: 1.	H0341: 36, L0748: 29, L0747: 23, S0360: 19, L0740: 18, H0494: 16, L0750: 15, L0757: 15,	1p34.1	120550, 120570, 120575, 121800,
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HDACA35	1002096	311	68 - 472	2486	Asp-1 to Lys-12, Pro-18 to Arg-26, Asp-51 to Val-74, Ala-80 to Leu-102.	L0637: 1, L0761: 1, L0373: 1, L0648: 1, L0521: 1, L0389: 1, L0376: 1, L0784: 1, L0523: 1, L0378: 1, L0527: 1, L0517: 1, L0383: 1, L0545: 1, L0541: 1, L0368: 1, L0352: 1, H0547: 1, H0689: 1, H0666: 1, H0539: 1, S0332: 1, S0044: 1, S0176: 1, S0146: 1, H0214: 1, H0478: 1, L0741: 1, L0749: 1, L0756: 1, L0759: 1, H0444: 1, H0343: 1, S0434: 1, L0361: 1, L0601: 1, L0366: 1, S0106: 1, H0667: 1, S0194: 1, H0423: 1, L0697: 1 and H0293: 1.		
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HOVDG59	1002328	312	1 - 639	2487	Pro-1 to His-7, Glu-61 to Lys-67, Arg-94 to Phe-104, Pro-164 to Trp-169.	H0672: 1. AR052: 20, AR039: 14, AR053: 13, AR096: 11, AR033: 11, AR055: 9, AR089: 9, AR104: 8, AR061: 7, AR060: 6 L0438: 6, L0439: 6, L0776: 5, H0428: 4, L0805: 4, H0687: 3, L0770: 3, H0651: 3, L0789: 2, L0756: 2, L0758: 2, L0361: 2, S0212: 1, S0001: 1, H0351: 1, H0587: 1, H0581: 1, H0052: 1, H0327: 1, H0178: 1, L0769: 1, L0767: 1, L0794: 1, L0807: 1, S0152: 1, H0522: 1, L0731: 1, L0759: 1 and L0608: 1.		
HTJAD78	1002459	313	1236 - 196	2488	Thr-2 to Gln-13, Ser-23 to Ser-28, Ser-36 to Ser-42.	L0748: 29, L0581: 21, H0510: 8, H0255: 5, H0574: 5, H0506: 4, H0331: 3, H0581: 3, H0264: 3, L0803: 3, L0774: 3, L0663: 3, H0555: 3, S0116: 2, H0632: 2, H0087: 2,	14q32.33	144120, 147020, 147110

HCDC69	1002468	314	170 - 508	2489	Cys-20 to Gly-29.	H0509: 2, L0648: 2, L0378: 2, H0254: 1, H0486: 1, H0575: 1, H0057: 1, H0015: 1, H0553: 1, H0488: 1, H0487: 1, S0438: 1, L0775: 1, L0526: 1, L0664: 1, H0658: 1, L0743: 1, L0751: 1, L0779: 1, L0759: 1, H0444: 1, S0308: 1, H0595: 1 and L0605: 1.		
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HPTTW90	1002479	315	3 - 356	2490	Glu-80 to Arg-86.			L0439: 3, H0688: 2, S0142: 2, L0664: 2, H0521: 2, L0751: 2, S0418: 1, S0222: 1, S0250: 1, H0252: 1, H0213: 1, H0617: 1, H0641: 1, S0344: 1, L0371: 1, L0803: 1, L0653: 1, L0527: 1, L0659: 1, H0520: 1, L0780: 1 and H0423: 1.	4p16.3	134934, 134934, 134934, 134934, 134934, 143100, 180072, 180072, 194190, 252800, 252800, 252800, 600965	
HSUBG36	1002492	316	58 - 342	2491	Arg-7 to Val-13, Leu-28 to Arg-33, Ser-69 to Gln-76.			L0749: 9, L0766: 5, H0659: 5, H0657: 4, S0022: 4, S0438: 3, S0422: 3, L0521: 3, L0518: 3, L0783: 3, H0144: 3, L0758: 3, H0685: 2, H0656: 2,	1q32	114208, 114208, 119300, 120620, 120620, 120920, 134370,	

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HODFU72	1002527	317	3 - 1199	2492	<p>Leu-14 to Asn-32, Ala-35 to Gly-40, Lys-51 to Ser-56, Ala-68 to Leu-78, Ile-91 to Lys-99, Gly-101 to Ala-124, His-141 to Lys-152, Ser-174 to Asp-181, Pro-203 to Leu-215, Lys-294 to Gly-301.</p>	<p>H0555: 1, S0028: 1, L0755: 1, L0757: 1, S0026: 1, H0136: 1, S0192: 1, H0542: 1, H0543: 1 and H0423: 1.</p> <p>L0777: 9, L0754: 8, H0457: 6, H0251: 5, H0615: 5, L0757: 5, S0360: 4, H0031: 4, L0731: 4, H0445: 4, H0438: 3, L0369: 3, L0662: 3, L0766: 3, L0659: 3, S0126: 3, L0747: 3, H0013: 2, H0644: 2, H0628: 2, L0598: 2, L0770: 2, L0769: 2, L0775: 2, L0805: 2, L0666: 2, S0374: 2, H0682: 2, L0779: 2, L0758: 2, L0759: 2, L0599: 2, L0595: 2, H0543: 2, H0423: 2, H0170: 1, H0556: 1, S0040: 1, H0381: 1, L0481: 1, S0358: 1, S0376: 1, T0008: 1, S0046: 1, H0393: 1, L0717: 1, S0222: 1, H0587: 1, H0333: 1, H0642: 1,</p>		
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HCNSF57	1002545	318	20 - 826	2493	Ser-80 to Gln-98.				
HODJU13	1002546	319	2 - 121	2494	Thr-2 to Ser-9, Pro-23 to Glu-34.		H0615: 2		
HODIL25	1002551	320	195 - 1556	2495	Ser-30 to Lys-46, Leu-55 to Gly-67, Ile-80 to Asp-85, Glu-146 to Arg-155, Asn-182 to Arg-192.		H0040: 6, H0013: 3, S0136: 3, L0777: 3, H0542: 3, H0171: 2, H0581: 2, H0328: 2, H0615: 2, L0662: 2, H0144: 2, L0731: 2, H0624: 1, H0170: 1, H0556: 1, S0282: 1, H0661: 1, H0176: 1, H0402: 1, S0354: 1, S0360: 1, H0393: 1, S6014: 1, H0574: 1, H0427: 1, H0575: 1, L0157: 1, S0003: 1, H0553: 1, H0090: 1, H0591: 1, T0067: 1, H0264: 1, H0412: 1, T0041: 1, H0494: 1, H0646: 1, S0002: 1, L0646: 1, L0642: 1, L0645: 1, L0651: 1, L0655: 1, L0659: 1, L0791: 1, L0666: 1,		

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HUVHS56	1002563	321	162 - 791	2496	Gln-34 to Pro-41, Lys-60 to Thr-71, Val-78 to Gln-86, His-139 to Tyr-149, Arg-183 to His-191.				L0803: 4, L0793: 4, L0749: 4, L0438: 3, L0439: 3, S0420: 2, H0485: 2, H0038: 2, H0561: 2, L0804: 2, L0747: 2, L0779: 2, L0591: 2, H0265: 1, H0556: 1, S0418: 1, H0728: 1, H0208: 1, H0619: 1, S0278: 1, H0486: 1, H0244: 1, H0052: 1, S0366: 1, H0598: 1, H0623: 1, L0640: 1, L0364: 1, L0774: 1, L0776: 1, L0807: 1, L0659: 1, L0809: 1, L0791: 1, S0374: 1, H0520: 1, H0547: 1, H0521: 1, H0522: 1, S3014: 1, L0752: 1, L0759: 1, H0445: 1, S0436: 1 and L0599: 1.			
HPMJQ18	1002565	322	392 - 823	2497	Gln-29 to Gln-42.				H0644: 4, S0036: 1 and			

HLHCI46	1002591	323	114 - 923	2498	Glu-1 to Asp-13, His-55 to Leu-66, Gln-69 to Cys-79, Thr-81 to Asp-90, Gln-132 to Arg-141, Asp-158 to Trp-169, Lys-171 to Asn-180, His-208 to Arg-221, Pro-229 to Glu-237.	H0521: 1. L0591: 15, L0751: 13, L0665: 11, L0754: 9, H0689: 6, L0750: 6, H0362: 3, H0688: 3, H0617: 3, L0774: 3, L0657: 3, H0658: 3, H0575: 2, H0615: 2, H0059: 2, H0690: 2, H0660: 2, S0328: 2, S0330: 2, L0743: 2, L0756: 2, L0755: 2, H0671: 1, H0282: 1, H0024: 1, T0006: 1, H0644: 1, H0647: 1, L0769: 1, L0662: 1, L0803: 1, L0806: 1, L0783: 1, L0809: 1, L0664: 1, H0682: 1, L0748: 1, L0596: 1 and L0599: 1.		
HAOSD18	1002607	324	29 - 1408	2499	Arg-12 to Arg-19, His-62 to Leu-73, Ser-103 to Thr-111, Asn-147 to Val-158, Phe-207 to Trp-213, Lys-243 to Lys-276, Ala-281 to Cys-289, Pro-297 to Pro-302, Glu-315 to Asp-324.			



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HSCLR05	1002807	327	3 - 242	2502	Lys-1 to Asn-10, Phe-40 to Gly-55, Asn-61 to Arg-66.			L0748: 3, H0486: 1, H0428: 1, H0034: 1, H0690: 1, H0435: 1, H0658: 1, H0653: 1 and L0465: 1.			
HVVAO74	1002811	328	37 - 831	2503	Pro-107 to Gly-118, Gly-128 to Ser-140, Asp-148 to Glu-166, Ala-173 to Ala-186, Arg-196 to Ala-210, Ile-219 to Trp-228, Asn-238 to Met- 251.			L0777: 17, L0766: 11, S0360: 10, L0748: 10, H0620: 8, H0124: 8, L0770: 8, H0295: 7, S0408: 7, S0046: 6, L0775: 6, L0659: 6, L0744: 6, L0595: 6, S0278: 5, S0440: 5, L0769: 5, L0655: 5, L0657: 5, L0666: 5, L0731: 5, H0556: 4, H0484: 4, S0358: 4, H0580: 4, S0222: 4, H0559: 4, H0052: 4, H0545: 4, H0673: 4,	113100, 124200, 147440, 158590, 160781, 163950, 163950, 235800, 251170, 276710, 600175, 601517	12q23-q24	

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HVVBI81	1003126	329	199 - 843	2504	Asp-45 to Pro-56, Thr-86 to Ser-91, Pro-127 to Arg-133, Asp-201 to Gln-215.	L0529: 1, L0647: 1, S0428: 1, H0698: 1, H0702: 1, L0565: 1, H0520: 1, H0690: 1, H0682: 1, H0684: 1, H0659: 1, H0670: 1, S0328: 1, H0539: 1, S0378: 1, S0380: 1, H0709: 1, S0044: 1, S0404: 1, H0436: 1, H0576: 1, S0037: 1, L0741: 1, L0755: 1, S0434: 1, L0597: 1, L0589: 1, L0608: 1, L0366: 1, S0026: 1, S0194: 1, S0276: 1, H0423: 1 and H0352: 1.	19q13.1- q13.2	107741, 113900, 122720, 122720, 126340, 126391, 160900, 164731, 172400, 172400, 173850, 180901, 180901,
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HVVBK18	1003155	330	185 - 925	2505	Lys-75 to Lys-80, Leu-138 to Tyr-144, Tyr-153 to Pro-159.	L0376: 1, L0783: 1, L0532: 1, L0666: 1, L0665: 1, H0689: 1, H0659: 1, H0658: 1, H0670: 1, H0660: 1, H0648: 1, H0672: 1, S0330: 1, H0521: 1, S0044: 1, H0134: 1, S0027: 1, L0740: 1, L0731: 1, H0445: 1, S0192: 1 and H0542: 1.	1p34.2	120550, 120570, 120575, 121800, 130500, 133200, 138140, 171760, 171760, 255800
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HOFMS19	1003222	331	12 - 317	2506			H0415: 2	21q11.2- q21.1	159595			
HSCLM55	1003224	332	1 - 768	2507	Phe-2 to Asp-14, Leu-35 to Ile-42, Leu-63 to Lys-69, Thr-79 to Glu-84, Ile-137 to Gln-149, Thr-195 to Asp-200, Lys-216 to Glu-222, Asn-228 to Asn- 233.							
HETJU23	1003706	333	860 - 1477	2508			AR055: 9, AR061: 8,					

							AR033: 6, AR060: 6, AR052: 5, AR089: 4, AR053: 3, AR096: 2, AR039: 2, AR104: 1 L0749: 4, L0794: 3, H0658: 3, H0046: 2, L0803: 2, L0666: 2, L0663: 2, L0777: 2, H0556: 1, H0351: 1, H0253: 1, H0014: 1, T0023: 1, H0038: 1, H0477: 1, H0412: 1, L0370: 1, L0763: 1, L0769: 1, L0639: 1, L0800: 1, L0768: 1, L0649: 1, L0804: 1, L0776: 1, L0367: 1, L0438: 1, H0435: 1, H0670: 1, H0666: 1, H0522: 1 and L0759: 1.			
HNOKB73	1004480	334	3 - 515	2509			S0192: 130, L0659: 16, L0666: 10, S0360: 7, L0771: 6, S0194: 5, L0662: 4, S0196: 4, L0665: 3, H0251: 2, H0252: 2, L0598: 2, L0638: 2, L0637: 2, L0649: 2, L0783: 2, H0684: 2, H0170: 1, H0687: 1, S0250: 1,			

							H0428: 1, H0048: 1, H0591: 1, L0774: 1, L0806: 1, L0809: 1, L0790: 1, L0664: 1, H0690: 1, L0751: 1, L0756: 1, L0758: 1, S0436: 1 and S0242: 1.			
HODFB06	1004583	335	392 - 550	2510		Phe-11 to Gly-16, Gln-44 to Ile-53.	H0615: 3 and L0740: 1.			
HODJA76	1004619	336	198 - 302	2511		Ser-1 to Cys-12, Gly-16 to Val-29.	H0615: 1			
HODJY60	1004625	337	111 - 683	2512		Arg-1 to Gly-8, Thr-82 to Thr-95, Ser-104 to Ile-110, Asn-136 to Glu-141.	L0803: 11, L0748: 11, L0777: 10, L0754: 8, L0759: 6, S0126: 5, S0358: 3, L0804: 3, L0439: 3, L0740: 3, L0747: 3, L0731: 3, L0758: 3, L0415: 2, S0360: 2, H0437: 2, H0457: 2, S0003: 2, H0615: 2, L0774: 2, L0775: 2, L0375: 2, L0666: 2, S0328: 2, L0750: 2, L0779: 2, L0752: 2, L0755: 2, L0757: 2, H0341: 1, H0637: 1, H0580: 1, H0592: 1, L0021: 1, T0110: 1, H0620: 1, H0266: 1, S0314: 1,			



							H0039: 1, H0031: 1, H0553: 1, L0055: 1, T0067: 1, H0412: 1, H0494: 1, H0561: 1, L0763: 1, L0772: 1, L0800: 1, L0764: 1, L0771: 1, L0766: 1, L0382: 1, L0809: 1, L0790: 1, L0532: 1, L0665: 1, H0144: 1, H0520: 1, H0682: 1, H0658: 1, H0648: 1, H0672: 1, S0044: 1, H0436: 1, L0756: 1, L0608: 1, S0026: 1, H0543: 1 and S0424: 1.			
HODEF10	1004627	338	1 - 231	2513	His-7 to Gly-17, Phe-24 to Trp-40.	H0615: 2				
HODFB03	1004631	339	1 - 711	2514	Gln-24 to Leu-29, His-38 to Asn-50, Gly-117 to Tyr-128, Ser-135 to Pro-147.	S0354: 1, H0083: 1, H0615: 1 and H0665: 1.	6p12-p11.1	180297, 230450, 263200, 601690		
HPMLN08	1004632	340	518 - 1294	2515		L0752: 14, L0777: 12, L0754: 11, L0731: 11, H0692: 10, L0758: 8, L0766: 6, L0759: 6, S0358: 5, L0809: 5, S0222: 4, S0003: 4, H0328: 4, L0769: 4, L0771: 4, L0803: 4,				

	L0740: 4, S0194: 4, L0005: 3, S0360: 3, H0068: 3, H0494: 3, L0774: 3, L0775: 3, L0776: 3, H0521: 3, L0747: 3, L0749: 3, L0757: 3, H0170: 2, H0713: 2, S0444: 2, H0427: 2, H0156: 2, S0010: 2, L0157: 2, H0687: 2, T0006: 2, H0628: 2, H0169: 2, H0598: 2, L0662: 2, L0768: 2, L0805: 2, L0666: 2, L0438: 2, H0547: 2, H0670: 2, H0648: 2, H0539: 2, L0748: 2, L0589: 2, L0599: 2, H0556: 1, T0002: 1, L0002: 1, H0341: 1, H0720: 1, S0400: 1, H0483: 1, H0402: 1, H0638: 1, S0442: 1, S0376: 1, H0733: 1, S0132: 1, H0645: 1, L0717: 1, H0431: 1, H0331: 1, H0486: 1, H0013: 1, H0036: 1, H0590: 1, H0052: 1, H0309: 1,					
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					H0327: 1, H0050: 1, L0471: 1, H0024: 1, S0388: 1, H0510: 1, H0266: 1, H0271: 1, H0428: 1, H0039: 1, H0644: 1, L0055: 1, H0673: 1, H0212: 1, S0036: 1, H0038: 1, H0272: 1, H0366: 1, S0450: 1, S0440: 1, S0210: 1, S0422: 1, S0002: 1, L0598: 1, L0638: 1, L0667: 1, L0772: 1, L0646: 1, L0800: 1, L0643: 1, L0773: 1, L0648: 1, L0626: 1, L0794: 1, L0804: 1, L0554: 1, L0806: 1, L0807: 1, L0559: 1, L5622: 1, L5623: 1, L0789: 1, L0663: 1, S0374: 1, S0126: 1, S0122: 1, H0658: 1, S0380: 1, H0710: 1, H0478: 1, S0027: 1, S0206: 1, L0439: 1, L0750: 1, L0756: 1, L0779: 1, H0445: 1, H0343: 1, S0434: 1, L0591: 1,				
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HODEH08	1004633	341	1 - 378	2516				L0608: 1, L0362: 1, H0668: 1, S0026: 1, H0653: 1 and H0423: 1.  H0032: 5, H0620: 4, H0599: 3, H0024: 3, H0615: 3, H0556: 2, H0141: 2, H0585: 2, S0420: 2, H0014: 2, H0212: 2, L0748: 2, L0740: 2, H0624: 1, H0170: 1, H0149: 1, H0484: 1, H0580: 1, H0393: 1, H0370: 1, H0592: 1, H0318: 1, S0049: 1, H0052: 1, H0530: 1, H0081: 1, H0012: 1, H0023: 1, H0286: 1, H0039: 1, H0135: 1, H0272: 1, H0412: 1, H0059: 1, S0440: 1, H0132: 1, S0002: 1, L0602: 1, L0746: 1, H0445: 1 and H0506: 1.		
HEGBF25	1004635	342	57 - 773	2517	Ala-1 to Gly-23, Gly-26 to Leu-32, Leu-53 to Leu-65, Gln-145 to Thr-151.			AR096: 1, AR089: 1, AR104: 0, AR055: 0, AR060: 0, AR061: 0 L0761: 3, L0439: 3, L0747: 3, L0766: 2, H0659: 2, L0779: 2,		

									L0777: 2, H0170: 1, S0360: 1, H0550: 1, H0023: 1, H0018: 1, H0641: 1, L0763: 1, L0769: 1, L0764: 1, L0803: 1, L0774: 1, L0655: 1, L0666: 1, H0648: 1 and H0436: 1.			
HODJB51	1004643	343	201 - 272	2518	Ser-1 to Asp-19.				H0328: 1 and H0615: 1.			
HODEC38	1004648	344	2 - 208	2519					L0764: 9, L0747: 6, L0766: 5, L0070: 5, L0748: 4, L0662: 3, L0749: 3, L0758: 3, L0759: 3, L0601: 3, H0574: 2, H0014: 2, H0615: 2, L0529: 2, L0666: 2, L0596: 2, H0265: 1, H0556: 1, H0583: 1, S0356: 1, S0360: 1, S0222: 1, H0486: 1, L0021: 1, H0581: 1, H0309: 1, H0545: 1, H0172: 1, H0188: 1, S0214: 1, H0252: 1, H0328: 1, H0674: 1, L0456: 1, H0625: 1, H0561: 1, S0426: 1, L0763: 1, L0769: 1, L0646: 1,			

HODIQ24	1004660	345	3 - 236	2520	Arg-6 to Gly-11, Pro-18 to Glu-33, Ala-48 to Asp-68.	L0641: 1, L0645: 1, L0773: 1, L0768: 1, L0794: 1, L0551: 1, L0774: 1, L0775: 1, L0375: 1, L0378: 1, L0805: 1, L0655: 1, L0658: 1, L0659: 1, L0783: 1, L0532: 1, L0664: 1, H0521: 1, L0611: 1, S0432: 1, L0757: 1, L0589: 1, L0591: 1, L0599: 1, H0543: 1 and H0423: 1.		
						L0794: 7, L0776: 4, L0740: 4, H0046: 3, L0805: 3, L0749: 3, H0624: 2, S0282: 2, L0157: 2, H0615: 2, L0663: 2, H0519: 2, L0748: 2, L0747: 2, L0777: 2, L0731: 2, H0686: 1, H0294: 1, H0486: 1, H0349: 1, H0009: 1, H0178: 1, H0050: 1, L0471: 1, H0328: 1, H0030: 1, H0412: 1, S0448: 1, L0764: 1, L0662: 1, L0807: 1, L0789: 1, L0792: 1, L0666: 1,		

HVVDD56	1004887	346	399 - 1400	2521	Asn-32 to Glu-42, Leu-59 to Ala-66, Leu-73 to Arg-78, Leu-100 to Leu-110, Asp-155 to Thr-161, Thr-166 to Cys-173, Leu-214 to Ser-220, Ser-227 to Lys-232, Arg-236 to Gly-242, Phe-257 to Asp-264, Arg-309 to Ala-314.	S0126: 1, H0670: 1, L0742: 1, L0743: 1, L0754: 1, L0779: 1, L0780: 1 and L0759: 1.  H0581: 8, H0422: 7, L0766: 5, H0521: 4, L0588: 4, S0360: 3, H0486: 3, L0663: 3, H0436: 3, S0434: 3, H0583: 2, S0298: 2, S0354: 2, S0408: 2, H0046: 2, H0622: 2, H0090: 2, H0494: 2, L0761: 2, L0655: 2, L0659: 2, H0518: 2, H0522: 2, H0696: 2, L0777: 2, H0445: 2, H0423: 2, H0556: 1, S0430: 1, H0650: 1, H0657: 1, S0116: 1, S0356: 1, S0376: 1, H0580: 1, H0586: 1, L0586: 1, H0250: 1, L0021: 1, T0071: 1, H0596: 1, H0644: 1, H0264: 1, H0412: 1, H0561: 1, S0440: 1, H0641: 1, H0649: 1, L0770: 1, L5565: 1, L0372: 1, L0642: 1,		
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HTHDV01	1004950	347	3 - 1292	2522	His-1 to Arg-20, Ala-30 to Ala-38, Ala-58 to Ser-69, Ser-138 to Pro-143, Leu-182 to Lys-198, Cys-204 to Thr-212, Ala-217 to Leu-229, Leu-237 to Lys-242, Asn-295 to Ser-302, Leu-314 to Phe-319, Ser-327 to Ser-338, Arg-409 to Ser-423.	L0387: 1, L0381: 1, L0775: 1, L0527: 1, L0664: 1, L0665: 1, S0216: 1, S0374: 1, L0565: 1, H0684: 1, H0435: 1, H0659: 1, H0648: 1, H0672: 1, H0710: 1, H0555: 1, L0748: 1, L0754: 1, L0749: 1, L0756: 1, H0595: 1 and H0543: 1, H0696: 37, H0692: 26, H0650: 22, H0271: 21, S0434: 21, S0406: 17, H0656: 13, S0360: 13, H0411: 12, H0710: 12, S0280: 11, H0416: 11, H0553: 11, L0666: 11, H0486: 10, H0581: 10, H0555: 10, L0751: 10, H0713: 9, S0354: 9, L0662: 9, S0126: 9, H0717: 8, S0358: 8, L0774: 8, H0144: 8, S0374: 8, H0670: 8, L0745: 8, H0436: 7, L0748: 7, H0013: 6, H0427: 6, H0596: 6, H0644: 6, H0674: 6, L0659: 6, L0754: 6,	14q24.3	104311, 109150, 182600, 245200, 601208
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				L0769: 2, L0372: 2, L0375: 2, L0653: 2, S0328: 2, H0539: 2, L0602: 2, H0521: 2, H0479: 2, L0743: 2, L0744: 2, L0746: 2, L0749: 2, L0779: 2, L0758: 2, S0436: 2, H0265: 1, H0685: 1, H0716: 1, T0087: 1, S6024: 1, S0430: 1, S0212: 1, H0669: 1, H0662: 1, H0638: 1, S0418: 1, L0005: 1, H0645: 1, H0351: 1, S6022: 1, H0369: 1, H0550: 1, H0441: 1, H0409: 1, H0600: 1, H0586: 1, H0587: 1, L0586: 1, H0244: 1, H0098: 1, L0022: 1, H0590: 1, H0309: 1, H0231: 1, H0150: 1, H0081: 1, L0471: 1, H0620: 1, H0024: 1, H0373: 1, L0163: 1, H0060: 1, H0688: 1, H0428: 1, H0039: 1, T0023: 1, L0142: 1, H0168: 1, H0169: 1,			
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HVVDJ95	1005153	348	203 - 400	2523	Pro-52 to Gly-58.	H0068: 1, H0038: 1, H0155: 1, S0294: 1, H0509: 1, H0131: 1, L0762: 1, L0763: 1, L0371: 1, L0638: 1, L5565: 1, L0373: 1, L0771: 1, L0768: 1, L0364: 1, L0650: 1, L0632: 1, L0523: 1, L0655: 1, L0783: 1, L0530: 1, L0647: 1, L0663: 1, H0725: 1, H0693: 1, L0352: 1, H0690: 1, H0660: 1, S0330: 1, S0380: 1, H0709: 1, S0350: 1, S0190: 1, S0404: 1, H0478: 1, L0611: 1, S3014: 1, S0027: 1, S0206: 1, L0740: 1, L0780: 1, L0731: 1, S0260: 1, H0445: 1, H0343: 1, L0599: 1, L0361: 1, S0462: 1 and S0456: 1.	9q34	125270, 125270, 128100, 137350, 191100.
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								215700, 223360, 268900, 601850
HODIY29	1005236	349	2115 - 1081	2524	Lys-1 to Phe-58, Pro-62 to Ser-105, Arg-118 to Asp-154, Pro-181 to Pro-187, Ala-215 to Asp-221, Pro-228 to Phe-240, Pro-264 to Ser-269, Ser-281 to Asp-291, Glu-301 to Phe-314.	L0748: 11, H0591: 2, L0779: 2, L0758: 2, H0624: 1, S0342: 1, S0045: 1, H0351: 1, H0427: 1, S0010: 1, H0052: 1, H0251: 1, N0006: 1, L0471: 1, H0266: 1, H0615: 1, H0622: 1, H0031: 1, H0090: 1, H0038: 1, L0769: 1, L0761: 1, L0766: 1, L0774: 1, L0657: 1, H0593: 1, H0521: 1, H0555: 1, L0744: 1, L0747: 1, L0750: 1 and L0777: 1.	21q22.1- q22.2	147450, 176261, 253270, 601399
HOELP29	1005359	350	3 - 1013	2525	Lys-5 to Leu-10, Ser-20 to Glu-30, Leu-32 to Thr-37.	L0755: 11, L0766: 4, L0747: 4, L0764: 2, L0663: 2, H0556: 1, H0686: 1, S0444: 1, S0408: 1, H0580: 1, H0722: 1, H0290: 1, L0483: 1, H0165: 1, H0494: 1, H0132: 1, S0150: 1, S0208: 1, L0772: 1, L0768: 1,	1p32	120950, 120960, 138140, 178300, 187040, 600101, 600650, 600650, 600722, 600722

							L0784: 1, L0805: 1, H0547: 1, S0126: 1, H0659: 1, H0660: 1, H0627: 1, L0749: 1, L0779: 1, L0731: 1, L0757: 1 and H0668: 1.			
HWLFG04	1005384	351	2 - 1015	2526		Lys-9 to Thr-17, Lys-41 to Asn-55, Leu-57 to Asn-65, Val-67 to Asn-79, Ile-122 to Cys-132, Leu-135 to Ala-147, Gln-175 to Ala-197, Pro-227 to Thr-251, Pro-253 to Gly-264, Pro-288 to Glu-296, Gln-312 to Val-321.	S0358: 3, H0539: 3, L0659: 2, L0664: 2, S0354: 1, S0360: 1, S0408: 1, S0007: 1, H0318: 1, S0474: 1, H0596: 1, H0266: 1, H0412: 1, L0369: 1, L0640: 1, L0656: 1, L0666: 1, L0663: 1, H0144: 1, H0648: 1, S0044: 1, L0755: 1, L0588: 1, L0592: 1, L0608: 1, L0362: 1 and H0423: 1.	7p15	138079, 138079, 139191, 142959, 153880, 180104, 600994, 601649	
HYAAC49	1005511	352	2 - 781	2527			AR089: 5, AR096: 5, AR053: 4, AR060: 3, AR039: 3, AR033: 3, AR055: 2, AR104: 2, AR061: 1 H0583: 1 and H0036: 1.			
HCOOA71	1005843	353	68 - 205	2528	Thr-34 to Ser-46.		L0777: 8, L0809: 4, L0749: 4, H0038: 3, L0769: 3, L0783: 3.			

HOUFB45	1005974	354	879 - 478	2529	Ser-1 to Ser-7, Gly-21 to Arg-37.	L0740: 3, H0581: 2, H0546: 2, H0024: 2, L0521: 2, L0375: 2, H0670: 2, L0748: 2, L0758: 2, L0759: 2, H0171: 1, S0360: 1, H0351: 1, L0622: 1, H0052: 1, H0424: 1, H0617: 1, H0087: 1, H0059: 1, H0494: 1, H0646: 1, L0369: 1, L0763: 1, L0766: 1, L0776: 1, L0657: 1, L0789: 1, L0666: 1, L0663: 1, L0565: 1, H0658: 1, L0439: 1, L0750: 1, L0753: 1 and L0757: 1.	22q11.23	123620, 600850
						L0665: 4, L0779: 3, L0646: 2, L0800: 2, L0650: 2, L0659: 2, S0040: 1, S0442: 1, S0045: 1, H0619: 1, H0052: 1, H0024: 1, S0051: 1, H0604: 1, H0030: 1, H0135: 1, L0639: 1, L0761: 1, L0372: 1, L0641: 1, L0771: 1, L0766: 1, L0803: 1, L0776: 1,		

HUSJ14	1006018	355	399 - 2081	2530	Lys-5 to Met-10, Lys-79 to Ser-86, Ser-145 to Leu-154.	L0657: 1, L0656: 1, L0783: 1, L0791: 1, L0666: 1, L0663: 1, L0438: 1, H0547: 1, H0672: 1, H0436: 1, L0748: 1, L0747: 1, L0749: 1, L0777: 1, L0758: 1 and L0608: 1.  L0439: 13, L0777: 9, L0717: 8, L0748: 6, L0659: 5, L0747: 4, H0318: 3, L0665: 3, L0779: 3, H0170: 2, H0212: 2, L0455: 2, L0764: 2, L0662: 2, L0768: 2, L0766: 2, L0775: 2, L0655: 2, H0520: 2, H0672: 2, L0746: 2, L0755: 2, L0758: 2, L0759: 2, L0595: 2, H0624: 1, H0171: 1, H0685: 1, H0661: 1, H0402: 1, S0046: 1, H0333: 1, T0109: 1, H0013: 1, S0280: 1, L0021: 1, H0590: 1, H0581: 1, H0374: 1, H0596: 1, L0471: 1, H0014: 1, S0051: 1, S0003: 1,		
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							H0328: 1, H0617: 1, H0040: 1, H0412: 1, H0494: 1, H0641: 1, L0761: 1, L0645: 1, L0773: 1, L0521: 1, L0375: 1, L0651: 1, L0805: 1, L0776: 1, L0526: 1, L0783: 1, L0809: 1, L0789: 1, L0666: 1, L0664: 1, H0701: 1, L0352: 1, H0547: 1, H0658: 1, H0670: 1, H0648: 1, H0651: 1, H0436: 1, L0740: 1, L0754: 1, L0752: 1, L0757: 1, L0591: 1, L0592: 1 and H0293: 1.		
HMCDB21	1006055	356	411 - 509	2531	Asn-1 to Arg-13.	L0794: 2, L0776: 2, L0745: 2, L0758: 2, S0260: 2, S0142: 1, L0500: 1 and H0648: 1.			
HSDEY08	1006142	357	594 - 1136	2532	Leu-25 to Phe-35, Lys-48 to Asp-54, Arg-62 to Phe-72, Tyr-92 to Leu-99.	L0534: 10, L0747: 10, L0769: 8, L0751: 7, L0592: 5, H0545: 4, L0770: 4, L0761: 4, L0438: 4, H0599: 3, T0010: 3, H0553: 3, L0646: 3, H0547: 3, S0028: 3, H0101: 2,			



				H0546: 2, H0050: 2, L0662: 2, L0794: 2, L0774: 2, L0378: 2, S0380: 2, L0752: 2, L0755: 2, L0758: 2, S0436: 2, L0603: 2, S0040: 1, H0295: 1, H0255: 1, S0418: 1, S0444: 1, S0360: 1, S0408: 1, H0580: 1, H0559: 1, H0156: 1, H0575: 1, H0706: 1, H0253: 1, H0457: 1, H0562: 1, H0566: 1, H0081: 1, L0471: 1, H0373: 1, H0083: 1, S6028: 1, H0266: 1, H0271: 1, S0250: 1, H0428: 1, H0617: 1, H0124: 1, H0708: 1, S0366: 1, H0135: 1, H0087: 1, H0551: 1, H0264: 1, H0488: 1, H0623: 1, T0041: 1, H0429: 1, H0561: 1, H0132: 1, H0130: 1, L0796: 1, L0639: 1, L0667: 1, L0764: 1, L0765: 1, L0768: 1, L0651: 1, L0805: 1,			
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HOOJT92	1006215	358	41 - 172	2533	Ser-9 to Glu-18, Asp-22 to Asp-30.	L0776: 1, L0636: 1, L0809: 1, L0791: 1, L4501: 1, L0666: 1, L0663: 1, L0665: 1, S0428: 1, H0693: 1, H0520: 1, H0519: 1, H0690: 1, H0684: 1, H0670: 1, H0660: 1, H0648: 1, H0521: 1, H0134: 1, H0436: 1, L0612: 1, S0037: 1, L0742: 1, L0743: 1, L0744: 1, L0748: 1, L0439: 1, L0777: 1, L0780: 1, L0757: 1, L0759: 1, S0031: 1, S0434: 1 and S0192: 1. L0748: 20, L0731: 10, L0776: 7, L0766: 6, L0754: 6, L0747: 6, L0752: 6, L0740: 5, L0755: 5, L0759: 5, H0550: 4, L0769: 4, L0438: 4, H0545: 3, H0051: 3, H0135: 3, L0662: 3, L0809: 3, L0666: 3, H0624: 2, H0685: 2, L0005: 2, H0645: 2, H0013: 2, S0346: 2, H0318: 2,		
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				H0597: 2, H0050: 2, H0014: 2, H0553: 2, H0040: 2, H0616: 2, H0551: 2, S0344: 2, S0002: 2, L0761: 2, L0771: 2, L0650: 2, L0806: 2, L0659: 2, H0547: 2, H0539: 2, H0696: 2, L0439: 2, L0749: 2, L0756: 2, L0605: 2, L0591: 2, L0581: 2, L0362: 2, H0171: 1, H0556: 1, S0134: 1, S0218: 1, H0583: 1, L0427: 1, S0358: 1, H0580: 1, H0208: 1, H0619: 1, S0278: 1, H0369: 1, H0549: 1, H0431: 1, H0370: 1, H0333: 1, H0427: 1, H0599: 1, T0082: 1, H0421: 1, H0052: 1, H0457: 1, L0157: 1, H0024: 1, H0687: 1, H0290: 1, H0252: 1, T0006: 1, H0644: 1, L0143: 1, H0111: 1, H0165: 1, H0674: 1, H0591: 1, H0634: 1, H0488: 1,		
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HNORE03	1006250	359	1 - 669	2534	Lys-54 to Asp-62, Pro-102 to Gly-109, Gln-121 to Thr-134, Lys-159 to Leu-165, Thr-190 to Asn-196.	H0623: 1, H0059: 1, S0112: 1, T0042: 1, H0561: 1, H0646: 1, H0652: 1, H0538: 1, L0763: 1, L0765: 1, L0648: 1, L0768: 1, L0803: 1, L0775: 1, L0375: 1, L0783: 1, L0530: 1, L0367: 1, L0663: 1, H0144: 1, H0519: 1, H0682: 1, H0659: 1, H0658: 1, H0648: 1, H0651: 1, S0378: 1, H0521: 1, L0611: 1, S0028: 1, L0750: 1, L0779: 1, L0777: 1, L0757: 1, L0758: 1, S0196: 1, H0542: 1, H0423: 1, H0422: 1, H0677: 1 and H0506: 1.		
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							S0330: 1, L0755: 1, L0759: 1, H0707: 1, L0608: 1, H0543: 1 and H0423: 1.			
HPCTS21	1006317	360	117 - 1754	2535	Arg-8 to Ser-35, Leu-40 to Cys-77.		L0766: 6, L0754: 6, L0779: 4, H0486: 3, L0665: 3, S0440: 2, L0756: 2, L0731: 2, L0758: 2, H0624: 1, H0717: 1, H0738: 1, H0125: 1, S0376: 1, S0360: 1, H0581: 1, L0157: 1, L0471: 1, S0250: 1, S0003: 1, H0316: 1, S0422: 1, L0769: 1, L0387: 1, L0803: 1, L0805: 1, L0776: 1, L0606: 1, L0659: 1, L0518: 1, L0793: 1, L0664: 1, H0689: 1, H0659: 1, H0658: 1, H0672: 1, S0328: 1, S0136: 1, H0134: 1, H0436: 1, H0732: 1, L0751: 1, L0777: 1, L0755: 1, L0759: 1, S0436: 1, H0422: 1 and S0412: 1.			
HFATL31	1006399	361	2 - 508	2536	Leu-17 to Arg-37, Pro-50 to Ser-77,		H0052: 2, H0620: 2, H0729: 1, S0300: 1,			

					Arg-85 to Gln-91, Glu-148 to Glu-153.		H0462: 1, H0550: 1, H0441: 1, H0333: 1, H0618: 1, S0010: 1, H0309: 1, H0032: 1, H0673: 1, H0124: 1, S0366: 1, S0036: 1, L0637: 1, S3014: 1, L0742: 1, L0743: 1, L0740: 1, L0750: 1, L0753: 1 and L0758: 1.		
HE2JE77	1006445	362	2 - 331	2537	Gly-67 to Leu-76, Cys-83 to Arg-89, Glu-96 to Asn-102.		L0521: 2, H0624: 1, H0539: 1 and H0555: 1.		
HCBNX87	1006470	363	948 - 529	2538	Gly-16 to Asn-31, Ala-36 to Ser-41, Glu-93 to Pro-100, Lys-135 to Gln-140.		H0693: 44, L0604: 5, S0366: 4, L0805: 4, H0637: 3, L0766: 3, H0672: 3, H0549: 2, H0271: 2, L0777: 2, H0661: 1, H0580: 1, H0173: 1, H0620: 1, H0428: 1, S0364: 1, L0641: 1, L0644: 1, L0655: 1, L0809: 1, L0791: 1, L0666: 1, L0663: 1, T0068: 1, H0576: 1, L0780: 1, L0731: 1, L0584: 1 and H0543: 1.		
HNTDJ68	1006483	364	3 - 653	2539	Val-9 to Ser-15, Phe-34 to Tyr-41,		AR052: 6, AR053: 5, AR055: 3, AR089: 3,		

					Glu-59 to Glu-75, Leu-94 to Asn-99, Asp-142 to Cys-152, Lys-166 to Leu-172, Lys-188 to Asn-194, Pro-212 to Ala-217.	AR033: 3, AR096: 3, AR061: 2, AR039: 2, AR060: 2, AR104: 2 H0615: 3, H0393: 1, H0441: 1, T0109: 1, H0318: 1, H0570: 1, H0566: 1, H0551: 1, H0625: 1, L0761: 1, L0766: 1, L0803: 1, L0784: 1, H0144: 1, H0539: 1, H0696: 1, L0744: 1, L0740: 1 and L0777: 1.		
HTRAA05	1006512	365	19 - 327	2540	Pro-11 to Phe-16, Ala-59 to Asp-66.	T0002: 1, H0164: 1 and L0761: 1.		
HMTAL96	1006635	366	1767 - 1321	2541	Ala-9 to Leu-20, Arg-70 to Thr-75, Pro-129 to Gly-139.	L0747: 6, L0754: 4, L0752: 4, S0280: 3, H0615: 3, L0766: 3, L0803: 3, L0805: 3, L0809: 3, L0740: 3, L0750: 3, L0731: 3, H0050: 2, L0471: 2, H0628: 2, H0032: 2, S0426: 2, H0648: 2, S0027: 2, L0779: 2, L0757: 2, L0759: 2, L0485: 2, H0656: 1, S0029: 1, S0356: 1, S0358: 1, S0376: 1, S0408: 1, H0580: 1,		

HDTJP21	1006858	367	55 - 246	2542	Ile-3 to Ile-10, Pro-40 to Val-64.	S0046: 1, H0645: 1, S0222: 1, H0592: 1, H0486: 1, H0427: 1, H0042: 1, H0036: 1, H0004: 1, H0581: 1, H0434: 1, H0052: 1, T0110: 1, H0545: 1, S0051: 1, H0375: 1, H0328: 1, L0483: 1, H0030: 1, H0644: 1, H0090: 1, H0551: 1, H0100: 1, H0633: 1, S0344: 1, S0002: 1, L0761: 1, L0764: 1, L0521: 1, L0363: 1, L0774: 1, L0775: 1, L0558: 1, L0659: 1, L0782: 1, L0787: 1, H0691: 1, H0658: 1, H0651: 1, S0330: 1, H0539: 1, S0380: 1, H0518: 1, S0013: 1, H0555: 1, S3014: 1, L0748: 1, L0439: 1, L0749: 1, L0758: 1, S0031: 1, L0599: 1, L0362: 1, S0196: 1 and H0422: 1.		
						H0615: 2 and H0486: 1.		



HISEQ81	1006943	368	298 - 2	2543	Glu-8 to Tyr-18, Asn-29 to Lys-35, Lys-62 to Ile-67, His-88 to Pro-99.	H0539: 2		
HODFH02	1006953	369	334 - 393	2544		H0615: 3		
HOCPP18	1007230	370	290 - 571	2545	Pro-11 to Phe-19, Phe-41 to Ser-54.	L0748: 3, L0471: 2, L0766: 2, L0752: 2, S0358: 1, H0357: 1, H0486: 1, H0270: 1, H0575: 1, S0182: 1, S0049: 1, T0067: 1, H0412: 1, H0560: 1, S0144: 1, S0326: 1, H0538: 1, S0422: 1, S0426: 1, L0764: 1, H0660: 1, H0521: 1, S0432: 1, L0740: 1, L0751: 1, L0754: 1, L0745: 1, L0747: 1, L0777: 1, L0731: 1, H0445: 1, L0608: 1 and H0667: 1.	14q21	182600, 232700, 602086, 602616
HODFP91	1007941	371	3 - 1016	2546	Glu-10 to Ser-19, His-41 to Lys-50, Glu-80 to Leu-86, Ser-142 to Leu-147, Lys-153 to Lys-161, Tyr-167 to Leu-175, Ser-177 to Asn-188, Gln-199 to Arg-228,	L0777: 4, L0517: 3, L0740: 3, L0599: 3, S0354: 2, H0615: 2, L0521: 2, L0663: 2, L0779: 2, L0591: 2, T0002: 1, H0013: 1, H0427: 1, H0553: 1, H0038: 1, L0520: 1,		

					Gln-257 to Glu-262, Asp-274 to Ser-279.	L0769: 1, L0638: 1, L0518: 1, L0809: 1, H0547: 1, L0439: 1, L0747: 1 and H0444: 1.			
H6EDU06	1007976	372	18 - 449	2547	Pro-6 to Leu-11, Glu-90 to Asn-95, Val-102 to Val-107, Ala-120 to Glu-126, Ala-132 to Thr-144.	H0686: 1, H0559: 1 and S0028: 1.			
HPCRD26	1008013	373	81 - 1334	2548	Gly-8 to Asp-16, Gly-71 to Pro-77, Met-98 to Tyr-105, Lys-129 to Arg-146, Gln-177 to Val-186, Gln-192 to Trp-216, Pro-223 to Asp-237, Ala-251 to Ser-258, Arg-287 to Arg-292, Met-323 to Gly-331.	AR053: 1, AR104: 1, AR061: 1, AR033: 1, AR060: 0, AR096: 0, AR039: 0, AR089: 0, AR052: 0, AR055: 0			
HSIEH63	1008027	374	3 - 554	2549	His-1 to Pro-7, Lys-43 to Asp-59, Thr-122 to Tyr-133, Gly-152 to Thr-160.	AR039: 9, AR089: 4, AR060: 4, AR055: 4, AR061: 3, AR033: 3, AR104: 3, AR053: 3, AR096: 1 S0354: 2, S0360: 1, H0036: 1, H0596: 1 and S0374: 1.			
HPASD51	1008071	375	3 - 752	2550	Glu-26 to Gly-31, Gly-33 to Trp-40, Ala-169 to Glu-175,	AR052: 51, AR061: 46, AR033: 35, AR053: 28, AR104: 26, AR055:			

					Gly-199 to Gly-204.	25, AR096: 25, AR060: 24, AR089: 23, AR039: 21 S0380: 5, L0748: 4, H0648: 3, S0378: 3, L0752: 3, L0766: 2, L0803: 2, L0665: 2, L0750: 2, H0661: 1, H0461: 1, H0270: 1, H0039: 1, H0622: 1, L0761: 1, L0657: 1, L0532: 1, L0666: 1, H0689: 1, S0330: 1, L0749: 1 and L0777: 1.			
HCOQH27	1008154	376	95 - 1315	2551	Gly-28 to Pro-34, Lys-39 to Glu-47, Ala-63 to Cys-68, Asn-101 to Gly-111, Leu-144 to His-161, Asp-234 to Trp-245, Phe-396 to Ser-407.	L0803: 5, L0439: 5, L0750: 5, L0774: 4, H0657: 3, H0046: 3, H0687: 3, H0031: 3, L0773: 3, L0794: 3, L0776: 3, L0655: 3, L0657: 3, L0790: 3, L0438: 3, L0747: 3, L0731: 3, H0656: 2, T0042: 2, L0761: 2, L0764: 2, L0654: 2, S0152: 2, L0751: 2, L0749: 2, L0777: 2, L0759: 2, L0592: 2, H0543: 2, S6024: 1, H0341: 1, S0212: 1,	I2		

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HNTBU30	1008177	377	2 - 2737	2552	Leu-40 to Val-46, Gly-83 to Gln-89, Lys-123 to Gly-129.	L0588: 1, L0591: 1, L0485: 1, H0542: 1, H0423: 1, H0422: 1 and H0293: 1. L0770: 7, L0777: 7, S0406: 5, L0439: 5, L0758: 4, H0659: 3, H0717: 2, H0494: 2, L0598: 2, L0764: 2, L0655: 2, H0547: 2, H0521: 2, H0478: 2, L0748: 2, L0731: 2, L0595: 2, L0411: 1, H0657: 1, H0656: 1, H0663: 1, S0358: 1, H0329: 1, H0645: 1, H0639: 1, H0415: 1, H0455: 1, H0156: 1, L0021: 1, H0052: 1, T0110: 1, L0471: 1, H0687: 1, S0250: 1, H0428: 1, H0553: 1, H0166: 1, H0598: 1, H0040: 1, H0551: 1, S0386: 1, H0560: 1, H0509: 1, H0538: 1, UNKWN: 1, L0763: 1, L0638: 1, L0646: 1, L0662: 1, L0364: 1, L0803: 1, L0659: 1,		
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HCOPZ14	1008179	378	763 - 1083	2553		L0636: 1, L0783: 1, L0666: 1, H0520: 1, H0519: 1, S0122: 1, H0435: 1, H0518: 1, H0694: 1, H0555: 1, H0436: 1, L0747: 1, L0749: 1, L0779: 1, L0752: 1, L0755: 1, S0031: 1, L0485: 1, H0422: 1 and H0506: 1. H0556: 3, S0474: 2, H0622: 2, H0634: 2, S0434: 2, H0265: 1, H0254: 1, H0663: 1, S0046: 1, H0602: 1, H0586: 1, H0069: 1, H0575: 1, H0581: 1, H0251: 1, S0051: 1, H0617: 1, H0494: 1, H0670: 1, S0152: 1, L0748: 1 and L0603: 1.	1q32-q41	114208, 114208, 119300, 120620, 120620, 120920, 134370, 134370, 134370, 134580, 145260, 150310, 150310, 179820, 191045, 276901, 600105, 600332, 600759, 601494,
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									601744, 601975
HODEC78	1008299	379	1 - 1209	2554		Arg-1 to Cys-8, Ala-11 to Thr-22, Pro-87 to Leu-99, Lys-120 to Glu-144, Leu-179 to Lys-200, Glu-212 to Lys-221, Tyr-280 to Arg-287, Lys-292 to Gly-299, Val-314 to Ser-320, Pro-322 to Pro-340.	H0615: 2, L0766: 2, L0755: 2, L0471: 1, H0356: 1, T0023: 1, L0761: 1, L0794: 1, L0787: 1, L0789: 1, H0519: 1, L0745: 1, L0746: 1, L0591: 1 and L0593: 1.	12p11.2- p11.1	112410, 135700, 168470, 200900
HODEF29	1008304	380	26 - 169	2555		His-8 to Gly-18.	H0615: 1		
HODFB71	1008307	381	369 - 671	2556		Lys-54 to Arg-59, Arg-66 to Arg-71.	L0805: 2, S0134: 1, H0486: 1, H0251: 1, H0235: 1, S0022: 1, H0615: 1, L0667: 1, L0776: 1, L0789: 1, L0758: 1 and H0423: 1.		
HODEF78	1008314	382	3 - 218	2557		Thr-4 to Ser-11, Pro-25 to Ala-31, Thr-38 to His-44.	H0615: 1		
HODEL83	1008324	383	3 - 416	2558		Ser-2 to Thr-13, Ile-16 to Ser-26, Pro-28 to Gln-36, Gln-41 to Pro-47, Pro-106 to Asp-111, Trp-127 to Thr-132.	H0615: 3		
HHPSH76	1008325	384	244 - 1206	2559		Ser-2 to Ser-7, Leu-51 to Arg-56,	L0776: 9, L0769: 4, L0789: 4, L0773: 3,		

						Lys-142 to Ser-149, His-178 to Ser-187, Tyr-261 to Gly-267, Arg-272 to Asp-292.	L0774: 3, L0750: 3, L0761: 2, L0771: 2, L0803: 2, L0807: 2, L0565: 2, L0745: 2, S0376: 1, H0549: 1, H0453: 1, H0587: 1, S0010: 1, S0324: 1, H0201: 1, H0687: 1, H0428: 1, H0538: 1, L0763: 1, L0770: 1, L0800: 1, L0643: 1, L0764: 1, L0794: 1, L0766: 1, L0775: 1, L0806: 1, S0328: 1, H0521: 1, L0780: 1, L0758: 1, L0759: 1, L0605: 1 and S0462: 1.		
HBGBE52	1008326	385	782 - 663	2560		Gly-1 to Glu-26, Val-28 to Leu-35.	H0181: 2, L0599: 2, H0014: 1, L0365: 1, L0665: 1, S0052: 1, S0216: 1, H0684: 1, S0152: 1, S0188: 1, H0345: 1 and L0366: 1.		
HBQAB30	1008327	386	3 - 737	2561		Asn-40 to Arg-68, Ser-86 to Ala-92, Ile-129 to Lys-145, Glu-162 to Ala-175, Glu-181 to Thr-204, Ser-206 to Lys-214, Leu-222 to Thr-231.	H0551: 2, S0354: 1, H0229: 1, S0049: 1, H0135: 1, H0529: 1 and S0028: 1.		



HLHCB31	1008332	387	1 - 558	2562	Asn-7 to Lys-19.	L0750: 4, L0777: 3, L0758: 3, S0354: 2, S0360: 2, H0039: 2, H0622: 2, H0617: 2, L0666: 2, H0520: 2, L0756: 2, L0759: 2, S0358: 1, H0549: 1, H0253: 1, H0009: 1, L0471: 1, H0620: 1, H0024: 1, H0083: 1, H0688: 1, L0142: 1, H0135: 1, H0038: 1, H0100: 1, H0646: 1, L0763: 1, L0761: 1, L0764: 1, L0662: 1, L0767: 1, L0794: 1, L0653: 1, L0659: 1, L0809: 1, L0665: 1, H0144: 1, H0547: 1, H0672: 1, L0741: 1, L0743: 1, L0744: 1, L0753: 1 and S0276: 1.	16q13- 16q21	114835, 118470, 132700, 172490, 209900, 600968
HPFDV51	1008335	388	22 - 216	2563	Thr-5 to His-10, Pro-28 to Thr-40, Lys-46 to His-54.	H0670: 4, S0007: 2, H0014: 2, H0616: 2, L0005: 1, H0574: 1, H0632: 1, H0156: 1, H0169: 1, L0769: 1, L0805: 1, L0647: 1, H0648: 1, L0779: 1 and L0758: 1.		

HTEDY04	1008336	389	2 - 832	2564	Arg-2 to Gly-9, Arg-38 to Lys-46, Ser-53 to Ser-73, Asp-79 to Ala-84, Leu-129 to Glu-136, Glu-202 to Arg-210, Glu-216 to Ala-231, Glu-234 to Glu-254, Lys-259 to Leu-265.	L0803: 8, L0758: 8, L0809: 6, L0748: 6, H0038: 5, L0439: 5, H0616: 4, H0670: 4, L0756: 4, L0731: 4, L0794: 3, L0750: 3, L0770: 2, L0805: 2, L0776: 2, L0602: 2, L0779: 2, S0276: 2, S0282: 1, S0410: 1, H0369: 1, H0549: 1, H0618: 1, H0252: 1, H0615: 1, H0424: 1, H0213: 1, H0032: 1, H0212: 1, H0068: 1, T0067: 1, S0438: 1, L0769: 1, L0638: 1, L0804: 1, L0775: 1, L0806: 1, L0527: 1, L0782: 1, L0788: 1, L0789: 1, L0666: 1, L0664: 1, L0665: 1, H0658: 1, H0672: 1, S3012: 1, L0751: 1, L0745: 1, L0777: 1, L0780: 1, L0759: 1 and L0581: 1.	1p35.1	118210, 120550, 120570, 120575, 121800, 130500, 133200, 171760, 171760, 185470, 230350, 255800, 602771	
HODEG13	1008337	390	2 - 166	2565	Gln-2 to His-10, Lys-21 to Glu-33.	H0615: 3			
HHPFK16	1008345	391	109 - 435	2566		H0663: 1, H0125: 1,			

HARAL81	1008349	392	220 - 20	2567	Ser-24 to Ala-30, ... Arg-55 to Ser-62.	S0418: 1, S0356: 1, H0051: 1, H0648: 1 and H0543: 1.  L0752: 6, L0663: 5, L0646: 3, L0754: 3, L0747: 3, H0031: 2, L0794: 2, H0659: 2, H0658: 2, L0748: 2, H0556: 1, H0657: 1, L0005: 1, S0354: 1, S0358: 1, S0410: 1, H0637: 1, H0441: 1, H0455: 1, T0082: 1, H0615: 1, S0440: 1, H0633: 1, S0344: 1, S0426: 1, H0529: 1, L0770: 1, L0769: 1, L0637: 1, L0374: 1, L0771: 1, L0648: 1, L0662: 1, L0766: 1, L0650: 1, L0774: 1, L0775: 1, L0805: 1, L0776: 1, L0655: 1, L0542: 1, L0782: 1, L0809: 1, L0666: 1, L0664: 1, L0665: 1, L0352: 1, H0648: 1, H0521: 1, H0696: 1, S0406: 1, L0740: 1, L0749: 1, L0731: 1 and		
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HFTAU42	1008350	393	987 - 1100	2568			H0444: 1. S0360: 2, H0123: 2, L0649: 2, L0803: 2, L0666: 2, L0740: 2, L0747: 2, L0750: 2, L0755: 2, H0624: 1, S0418: 1, H0393: 1, H0553: 1, H0124: 1, H0090: 1, S0440: 1, H0646: 1, S0142: 1, L0662: 1, L0776: 1, L0659: 1, L0665: 1, L0438: 1, H0547: 1, H0519: 1, H0659: 1, H0658: 1, H0648: 1, L0777: 1, L0752: 1, H0445: 1, L0599: 1, S0242: 1 and H0542: 1.		
HETDA81	1008358	394	3 - 377	2569	Thr-5 to Ser-12, Thr-74 to Pro-80.		H0046: 2 and H0648: 1.		
HODEI92	1008359	395	1 - 495	2570	His-31 to Asp-45, Glu-56 to Ser-64, Pro-118 to Asp-131.		L0747: 4, L0751: 3, H0615: 2, L0794: 2, L0665: 2, H0659: 2, L0777: 2, L0596: 2, H0341: 1, H0333: 1, H0510: 1, H0328: 1, H0039: 1, L0764: 1, L0657: 1, H0658: 1, S0328: 1 and L0758: 1.		
HODEB58	1008372	396	3 - 455	2571	Thr-25 to Ser-36.		H0360: 14, L0809: 11,		

L0747: 9, L0749: 9, L0777: 9, L0803: 8, L0731: 8, L0774: 7, L0794: 6, S0408: 5, L0783: 5, L0775: 4, L0438: 4, H0648: 4, L0756: 4, L0623: 3, H0575: 3, L0471: 3, H0373: 3, H0615: 3, L0520: 3, L0768: 3, S0126: 3, S0328: 3, S0406: 3, L0779: 3, L0758: 3, S0116: 2, S0444: 2, S0360: 2, H0393: 2, S0222: 2, H0156: 2, T0082: 2, H0052: 2, H0014: 2, H0494: 2, S0440: 2, L0763: 2, L0769: 2, L0764: 2, L0517: 2, H0684: 2, H0670: 2, H0672: 2, H0539: 2, L0740: 2, L0753: 2, L0757: 2, L0759: 2, S0031: 2, L0588: 2, L0581: 2, L0595: 2, S0424: 2, H0171: 1, T0002: 1, H0218: 1, H0685: 1, S0342: 1, S0402: 1, T0049: 1,							
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HODEG86	1008379	397	411 - 548	2572			H0615: 3			
HODFA57	1008396	398	138 - 221	2573		Lys-1 to Lys-6, Leu-10 to Asp-17, Pro-19 to Arg-28.	H0615: 4			
HODFB31	1008401	399	1 - 276	2574		Pro-35 to Lys-40, Glu-72 to Gly-77, Pro-85 to Val-90.	H0615: 2, S0278: 1, S0002: 1, H0555: 1 and S0026: 1.			
HTEMP79	1008406	400	317 - 658	2575		Leu-14 to Ser-19.	L0758: 6, L0779: 4, H0038: 3, H0616: 2, L0593: 2, H0644: 1, L0794: 1 and L0594: 1.			
HODEI59	1008423	401	161 - 1291	2576		His-6 to Ser-11, Ser-122 to Asn-128, Leu-216 to Asp-221, Ser-323 to His-328.	H0031: 12, H0521: 11, H0542: 11, L0745: 9, H0266: 7, H0547: 7, H0551: 6, H0013: 5, S0152: 5, T0049: 4, H0169: 4, H0494: 4,	20q12-q13.1256540, 600281, 600281		

			L0748: 4, L0591: 4, H0661: 3, H0251: 3, H0046: 3, H0644: 3, H0591: 3, S0002: 3, H0520: 3, S0126: 3, S0028: 3, L0439: 3, L0754: 3, L0757: 3, L0596: 3, H0423: 3, H0171: 2, S0134: 2, S0354: 2, S0358: 2, H0580: 2, S0046: 2, H0587: 2, H0497: 2, T0039: 2, H0599: 2, H0050: 2, L0471: 2, T0010: 2, H0615: 2, H0039: 2, H0090: 2, H0038: 2, H0040: 2, H0488: 2, T0042: 2, S0150: 2, H0529: 2, L0649: 2, L0659: 2, L0438: 2, H0519: 2, H0660: 2, H0555: 2, S3014: 2, S0027: 2, L0777: 2, L0593: 2, L0601: 2, H0653: 2, H0543: 2, H0170: 1, H0556: 1, H0341: 1, S0001: 1, H0664: 1, H0662: 1, H0638: 1, S0418: 1, S0420: 1,			
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HODEF94	1008429	402	2 - 94	2577	Pro-19 to Ser-29.		H0615: 2, H0090: 1, S0002: 1 and H0478: 1.			
HPFCZ53	1008445	403	236 - 769	2578	Lys-1 to Lys-23.		L0754: 40, L0740: 8, H0295: 2, H0663: 2, H0169: 2, H0068: 2, L0770: 2, L0662: 2, L0789: 2, L0748: 2, L0751: 2, L0755: 2, L0589: 2, S0420: 1, L0005: 1, H0586: 1, H0156: 1, H0032: 1, H0100: 1, H0494: 1, L0803: 1, L0806: 1, L0809: 1, H0660: 1, H0672: 1, S0152: 1, L0744: 1, L0779: 1, L0777: 1, L0780: 1, L0591: 1, L0593: 1 and L0601: 1.	6p24	134570	
HWACN71	1008764	404	96 - 1268	2579	Val-7 to Gly-14, Lys-46 to Ala-52, Leu-82 to Phe-89, Lys-94 to Ser-99, Pro-101 to Arg-108.		AR096: 7, AR053: 5, AR089: 4, AR039: 3, AR060: 2, AR055: 2, AR052: 2, AR033: 2, AR061: 2, AR104: 2			

						Ala-123 to Gly-129, Lys-154 to Gly-164, Arg-274 to Glu-287, Asp-294 to Thr-309, Gln-324 to Ala-334, Pro-343 to Asn-359, Lys-368 to Glu-385.	H0457: 2, H0494: 2, H0740: 1, H0581: 1, H0083: 1, L0770: 1, L0769: 1, L0764: 1, L0791: 1 and H0727: 1.			
HOFMU69	1009017	405	342 - 1151	2580		Ser-70 to Trp-88, Lys-154 to Asp-161, Tyr-265 to Lys-270.	AR039: 17, AR052: 11, AR104: 7, AR033: 7, AR096: 7, AR053: 6, AR089: 6, AR060: 3, AR061: 3, AR055: 3 H0415: 2			
HSKNP59	1009095	406	417 - 554	2581		Pro-10 to Pro-16.	AR039: 15, AR089: 10, AR053: 10, AR096: 9, AR055: 8, AR060: 7, AR033: 6, AR061: 5, AR104: 4 L0510: 3, L0504: 1, L0502: 1, L0499: 1, L0514: 1, L0512: 1 and S3012: 1.			
HETBR71	1009343	407	155 - 658	2582		Lys-5 to Phe-58.	L0731: 10, L0759: 6, L0782: 4, L0774: 3, H0046: 2, H0620: 2, L0598: 2, L0769: 2, L0805: 2, L0663: 2, S0380: 2, L0754: 2, L0756: 2, H0170: 1,	Xq22.1	301201, 301835, 311850	

HE2ES17	1009349	408	3 - 914	2583	Glu-1 to Glu-13.	H0384: 1, H0484: 1, H0664: 1, S0358: 1, S0360: 1, S0410: 1, H0580: 1, H0549: 1, S0222: 1, H0427: 1, H0156: 1, S0010: 1, H0194: 1, H0545: 1, H0375: 1, H0644: 1, S0366: 1, H0038: 1, S0210: 1, L0631: 1, L0800: 1, L0764: 1, L0662: 1, L0766: 1, L0775: 1, L0375: 1, L0776: 1, L0659: 1, L0647: 1, H0144: 1, H0547: 1, H0660: 1, H0672: 1, S0330: 1, H0539: 1, S0152: 1, S0044: 1, H0694: 1, S0406: 1, L0779: 1, L0758: 1, L0605: 1 and H0653: 1.		
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HELM06	1009362	409	14 - 349	2584	Asp-57 to Ala-62, Gly-98 to Pro-112.		S0045: 1			
HE2AG50	1009365	410	43 - 132	2585	Gly-1 to Ser-6, Pro-20 to Ile-30.		AR089: 1, AR033: 1, AR060: 0, AR096: 0, AR061: 0, AR055: 0, AR039: 0 H0170: 1, H0574: 1, H0052: 1, H0048: 1 and L0766: 1.			
HE2ES61	1009388	411	555 - 427	2586			H0305: 2, L0663: 2, H0170: 1, S0003: 1, L0803: 1 and H0651: 1.			
HE2SO43	1009398	412	1 - 408	2587	Pro-65 to Lys-70, His-112 to Gly-131.		H0624: 1			
HLLHCI07	1009403	413	91 - 2	2588	Arg-5 to Gly-11.		H0208: 1, H0123: 1 and H0024: 1.	13q		
HTTBR65	1009414	414	1 - 357	2589	Gly-3 to Thr-9, Arg-30 to Gly-39.		H0305: 1 and H0040: 1.	17q21	109270, 109270, 109270, 109270, 109270, 113705, 113705, 144200,	

								148065, 148066, 148066, 148067, 148067, 148069, 148080, 154275, 168610, 171190, 176705, 185800, 200350, 221820, 232200, 249000, 252920, 253250, 600119, 600119, 601363, 601844
HPFCV71	1009453	415	434 - 586	2590			H0328: 1, H0615: 1, H0169: 1, L0807: 1 and L0754: 1.	
HCABR46	1009479	416	169 - 423	2591	Ala-9 to Glu-19, Glu-40 to Asn-46, Asp-55 to Ser-66.	H0125: 1	19p13.2	108725, 120700, 133171, 143890, 147670,

							147670, 147670, 151440, 164953, 231670, 600276, 600957, 601843	
HCRCB80	1009482	417	78 - 479	2592	Gln-34 to Ala-45, Glu-47 to Leu-52, Lys-113 to Gln-121.	H0170: 1, H0327: 1, H0038: 1, L0758: 1 and S0276: 1.	22q13.2- q13.31	188826, 250100, 250800, 250800
HPMLW78	1009833	418	1 - 648	2593	Asn-12 to Tyr-19, Glu-33 to Glu-38, Arg-53 to Ser-62.	L0769: 4, L0751: 4, L0471: 2, H0024: 2, L0768: 2, L0748: 2, L0731: 2, L0595: 2, H0685: 1, S0001: 1, H0052: 1, H0050: 1, H0012: 1, H0644: 1, H0617: 1, H0040: 1, H0100: 1, L0637: 1, L0662: 1, L0809: 1, L0665: 1, H0547: 1, H0519: 1, L0780: 1 and L0591: 1.	1q23	104770, 107300, 107670, 131210, 134638, 136132, 145001, 146740, 146740, 146740, 146790, 173610, 176310, 186780, 191030, 227400, 227400, 601412,

								601652, 602491
HODJK75	1009842	419	3 - 428	2594	Ala-26 to Ile-34.	H0615: 2		
HODJX27	1009854	420	1 - 123	2595	Ser-27 to Gly-32.	H0615: 1		
HODJV85	1009857	421	366 - 166	2596	Asp-1 to Gly-9, Glu-17 to Lys-23.	H0615: 1		
HOOJO38	1009918	422	718 - 116	2597	Ala-76 to Lys-87, Glu-110 to Gln-115, Ser-123 to Lys-131, Lys-168 to Ala-174, Pro-178 to Ala-193, Ala-196 to Ala-201.	L0493: 55, L0504: 46, L0512: 42, L0510: 41, L0507: 39, L0509: 35, L0511: 30, L0502: 29, L0500: 25, L0499: 20, L0503: 19, L0498: 13, L0514: 13, H0648: 13, L0506: 10, H0341: 9, H0046: 7, L0505: 7, L0497: 7, H0670: 7, L0520: 6, H0659: 6, S0380: 6, L0508: 5, S0027: 5, S0114: 4, H0657: 4, S0045: 4, H0100: 4, L0515: 4, L0526: 4, L0664: 4, S0126: 4, H0658: 4, S0378: 4, S0028: 4, L0588: 4, L0362: 4, S0026: 4, H0333: 3, H0318: 3, H0090: 3, H0413: 3, S0142: 3, L0646: 3, S0374: 3, H0689: 3, L0750: 3,		



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HAOSI69	1009949	423	1 - 1155	2598					L0775: 1, L0651: 1, L0776: 1, L0659: 1, L0517: 1, L0540: 1, L0518: 1, L0783: 1, L0384: 1, L0541: 1, L0543: 1, L0367: 1, L0368: 1, L0532: 1, L0663: 1, L0665: 1, S0428: 1, H0691: 1, H0684: 1, H0660: 1, H0666: 1, H0672: 1, H0651: 1, H0522: 1, H0187: 1, H0576: 1, S0392: 1, S0118: 1, S0206: 1, S0032: 1, L0751: 1, L0747: 1, L0777: 1, L0752: 1, H0444: 1, L0596: 1, L0590: 1, L0604: 1, L0601: 1, H0667: 1 and H0293: 1.	11q13	102200, 106100, 131100, 131100, 131100, 133780, 147050, 153700, 161015,
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HSDIY67	1010157	424	3 - 692	2599	Ala-7 to Arg-18, Pro-37 to Asp-43, Asn-96 to Arg-103, Lys-115 to Ser-122,	H0059: 1, L0564: 1, S0438: 1, H0633: 1, H0646: 1, S0208: 1, S0210: 1, S0002: 1, H0529: 1, L0369: 1, L5566: 1, L0372: 1, L0642: 1, L0767: 1, L0522: 1, L0774: 1, L0655: 1, L0629: 1, L0656: 1, L0634: 1, L0659: 1, L0542: 1, L0792: 1, L0532: 1, L0666: 1, H0144: 1, H0693: 1, H0593: 1, H0689: 1, H0683: 1, H0660: 1, H0672: 1, S0330: 1, H0696: 1, S0406: 1, S0037: 1, L0743: 1, L0751: 1, L0750: 1, L0756: 1, L0780: 1, L0752: 1, L0755: 1, S0031: 1, H0445: 1, H0343: 1, L0589: 1, H0665: 1, S0192: 1, S0424: 1, S0460: 1 and S0456: 1.		
						H0658: 4, H0551: 3, L0439: 3, H0686: 2, H0441: 2, H0013: 2, S0152: 2, L0744: 2,		

					Ile-162 to Asn-168, Arg-179 to Asp-189, Asp-206 to Asn- 215, Glu-222 to Val-230.	L0759: 2, S0260: 2, S0360: 1, S0045: 1, L0394: 1, H0009: 1, L0471: 1, H0012: 1, H0620: 1, T0003: 1, H0188: 1, H0428: 1, L0564: 1, L0763: 1, L0770: 1, L0769: 1, L0637: 1, L0646: 1, L0643: 1, L0775: 1, L0805: 1, S0028: 1, L0779: 1, L0592: 1, S0276: 1, S0412: 1 and H0506: 1.			
HSDZM65	1010299	425	2 - 337	2600	Ser-18 to Thr-23, Val-91 to Gln-99.	L0758: 8, L0803: 6, L0740: 6, L0809: 5, L0794: 4, L0756: 4, L0752: 4, S0360: 3, H0551: 3, L0527: 3, L0783: 3, H0689: 3, L0777: 3, L0731: 3, T0049: 2, S0222: 2, S0049: 2, H0163: 2, L0766: 2, L0804: 2, L0659: 2, L0518: 2, L0438: 2, H0547: 2, H0521: 2, H0696: 2, L0779: 2, L0485: 2, H0170: 1, H0171: 1, H0656: 1, H0381: 1,			

	S0212: 1, H0662: 1, H0638: 1, S0376: 1, S0007: 1, S0045: 1, H0455: 1, H0331: 1, H0574: 1, H0013: 1, H0042: 1, H0004: 1, H0421: 1, H0545: 1, H0041: 1, L0471: 1, H0014: 1, S0051: 1, H0083: 1, S0336: 1, H0428: 1, H0553: 1, H0040: 1, L0060: 1, H0487: 1, H0494: 1, H0560: 1, H0561: 1, H0529: 1, L0637: 1, L0667: 1, L0800: 1, L0662: 1, L0375: 1, L0805: 1, L0653: 1, L0776: 1, L0655: 1, L0787: 1, L0790: 1, L0666: 1, L0665: 1, S0053: 1, S0374: 1, H0519: 1, H0711: 1, H0659: 1, H0660: 1, H0672: 1, S0380: 1, H0627: 1, L0743: 1, L0755: 1, S0260: 1, L0608: 1, L0601: 1, L0366: 1, H0667: 1, S0242: 1, S0276: 1,	
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HPDOC39	1010400	426	144 - 608	2601	Ser-16 to Val-25, His-105 to Lys-125, Tyr-147 to Ser-155.	S0446: 1 and H0506: 1, S0360: 8, S0358: 7, H0547: 6, H0561: 5, S0126: 5, S0418: 4, L0766: 4, L0748: 4, L0755: 4, L0362: 4, H0686: 3, H0591: 3, H0521: 3, L0740: 3, L0777: 3, L0752: 3, L0731: 3, L0758: 3, H0445: 3, L0595: 3, S0196: 3, H0656: 2, H0663: 2, S0356: 2, S0376: 2, S0444: 2, S0046: 2, S0278: 2, H0331: 2, H0574: 2, H0581: 2, H0052: 2, H0046: 2, H0266: 2, S0003: 2, H0090: 2, H0623: 2, T0042: 2, H0494: 2, L0768: 2, L0803: 2, L0659: 2, L0809: 2, H0144: 2, H0520: 2, H0522: 2, L0439: 2, L0596: 2, L0591: 2, L0601: 2, H0136: 2, S0242: 2, H0423: 2, H0265: 1, H0341: 1, S0001: 1, H0305: 1, H0589: 1,		
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	S0420: 1, H0580: 1, S0045: 1, H0619: 1, H0437: 1, S0222: 1, T0039: 1, H0013: 1, H0599: 1, H0253: 1, S0010: 1, H0421: 1, L0738: 1, H0544: 1, H0546: 1, H0041: 1, H0050: 1, H0373: 1, H0083: 1, H0039: 1, H0622: 1, H0031: 1, H0673: 1, S0366: 1, H0135: 1, H0038: 1, H0551: 1, H0412: 1, H0056: 1, T0041: 1, H0334: 1, H0560: 1, H0509: 1, H0633: 1, S0142: 1, S0002: 1, L0770: 1, L0769: 1, L0646: 1, L0374: 1, L0764: 1, L0771: 1, L0381: 1, L0774: 1, L0775: 1, L0666: 1, L0663: 1, L0664: 1, H0701: 1, S0374: 1, H0519: 1, H0689: 1, H0682: 1, H0659: 1, H0658: 1, H0539: 1, S0152: 1, S0332: 1, H0696: 1, H0134: 1,	
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HE2PS15	1010525	427	3 - 236	2602	Gly-1 to Asp-8, Asp-62 to Ala-67.	S0406: 1, L0754: 1, L0747: 1, L0750: 1, L0786: 1, L0759: 1, S0260: 1, S0026: 1, H0542: 1, H0543: 1, H0422: 1 and S0452: 1. AR104: 72, AR060: 48, AR089: 29, AR055: 25, AR096: 16, AR061: 10 L0755: 9, L0757: 8, L0519: 6, L0748: 6, L0763: 5, L0774: 5, L0779: 5, H0657: 4, S0222: 4, L0471: 4, L0766: 4, H0670: 4, L0588: 4, S0408: 3, S0438: 3, L0520: 3, L0769: 3, S0374: 3, H0352: 3, H0686: 2, H0341: 2, S0444: 2, S0360: 2, S0046: 2, H0261: 2, H0333: 2, L0622: 2, H0494: 2, S0422: 2, L0767: 2, L0768: 2, L0775: 2, L0809: 2, H0659: 2, S0328: 2, H0696: 2, S0406: 2, L0747: 2, L0750: 2, L0731: 2,	14q32.33	144120, 147020, 147110
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	H0667: 2, H0542: 2, H0171: 1, S0114: 1, H0656: 1, S0116: 1, S0358: 1, S0410: 1, H0580: 1, S0007: 1, S0045: 1, H0370: 1, H0357: 1, H0438: 1, L0623: 1, H0486: 1, T0114: 1, T0109: 1, H0250: 1, H0098: 1, H0036: 1, H0004: 1, S0010: 1, H0318: 1, S0049: 1, H0052: 1, L0738: 1, H0572: 1, H0562: 1, H0082: 1, H0051: 1, S0048: 1, S0388: 1, H0083: 1, L0044: 1, H0687: 1, H0428: 1, H0031: 1, H0617: 1, S0364: 1, H0708: 1, S0036: 1, H0412: 1, H0413: 1, S0466: 1, H0131: 1, S0142: 1, L0770: 1, L0373: 1, L0372: 1, L0374: 1, L0764: 1, L0375: 1, L0806: 1, L0657: 1, L0512: 1, L0659: 1, L0540: 1, L0542: 1, L0526: 1,	
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HTTKH22	1010596	428	266 - 1396	2603	Ser-42 to Pro-49, Asp-86 to Gly-92, Lys-97 to Glu-109.		H0670: 4, H0616: 3, L0439: 3, L0758: 3, S0354: 2, H0038: 2, S0116: 1, H0402: 1, H0637: 1, S0474: 1, H0644: 1, H0673: 1, S0366: 1, H0634: 1, L0351: 1, L0638: 1, L0764: 1, L0766: 1, L0803: 1, L0775: 1, L0805: 1, L0792: 1, L0666: 1, H0520: 1, L0780: 1 and H0542: 1.		12q13-q14	10777, 123829, 123940, 139350,
HNOJG33	1010698	429	1209 - 490	2604	Arg-1 to Pro-15, Ser-146 to Arg-155, Leu-168 to Asp-174, Lys-181 to Thr-186,		S0040: 3, L0748: 3, S0356: 2, S0358: 2, S0360: 2, H0416: 2, L0752: 2, H0624: 1,			

				Phe-226 to Pro-236.	H0265: 1, H0556: 1, S0116: 1, H0255: 1, S0376: 1, S0278: 1, H0575: 1, H0251: 1, L0471: 1, H0373: 1, S0051: 1, H0356: 1, H0687: 1, H0288: 1, H0252: 1, H0135: 1, H0634: 1, H0551: 1, S0210: 1, L0438: 1, H0658: 1, H0666: 1, S0330: 1, S3014: 1, L0744: 1, L0439: 1, L0745: 1, S0260: 1, H0595: 1 and S0196: 1.		139350, 147570, 148040, 148041, 148043, 148070, 181430, 231550, 252940, 264700, 600194, 600231, 600536, 600808, 600956, 601284, 601769, 601769, 601928, 602116, 602153
HPDVK48	1011090	430	1085 - 1630	2605	Lys-14 to Ala-21, Ser-23 to Lys-31, Glu-38 to Gln-47, Arg-72 to Leu-78, Gln-87 to Asn-94, Ser-110 to Lys-118, Glu-172 to Lys-182.	H0650: 2, H0253: 2, L0769: 2, S0116: 1, H0333: 1, H0421: 1, H0083: 1, H0166: 1, H0616: 1, S0208: 1, L0645: 1, L0655: 1, L0666: 1, H0547: 1, H0593: 1, H0689: 1, H0658: 1, S0434: 1 and	

HNORJ10	1011186	431	3 - 1628	2606	Asn-42 to Pro-48, Glu-81 to Lys-86, Val-94 to Thr-99, Lys-105 to Asp-111, Phe-129 to Glu-142, Ser-154 to Gln-160, Glu-173 to Ala-182, Gln-209 to Glu-234, Asp-259 to Asp-272, Ser-303 to Pro-311, Thr-321 to Asn-329, Ala-335 to Glu-349, Thr-371 to Gly-389, Gln-395 to Asn-405, Thr-415 to Asn-423, Asn-431 to Ser-443, Lys-475 to Gln-484, Ser-502 to Gly-507, Ile-522 to Asn-527.	H0352: 1. S0003: 17, H0551: 11, L0483: 9, H0547: 9, S0212: 7, S0152: 7, H0521: 7, H0423: 7, L0766: 6, L0666: 6, S0214: 5, S0126: 5, H0543: 5, S0420: 4, S0360: 4, H0411: 4, H0032: 4, H0598: 4, S0422: 4, L0649: 4, L0665: 4, L0757: 4, H0657: 3, S0376: 3, L0717: 3, H0574: 3, H0486: 3, H0069: 3, H0427: 3, H0581: 3, H0046: 3, H0457: 3, H0271: 3, H0622: 3, H0494: 3, L0667: 3, L0655: 3, L0659: 3, H0519: 3, H0672: 3, H0710: 3, L0754: 3, L0759: 3, L0593: 3, L0601: 3, H0422: 3, H0218: 2, S0040: 2, H0713: 2, H0717: 2, H0650: 2, H0656: 2, S0356: 2, S0132: 2, S0222: 2, H0333: 2, H0009: 2, L0157: 2,	14q21-q24	107970, 115650, 182600, 232700, 602086, 602091, 602616
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	H0510: 2, H0375: 2, S0318: 2, S0316: 2, H0313: 2, H0591: 2, H0412: 2, H0413: 2, S0440: 2, S0002: 2, H0529: 2, L0520: 2, L0646: 2, L0662: 2, L0806: 2, L0664: 2, L0565: 2, H0435: 2, S0328: 2, H0522: 2, H0696: 2, H0704: 2, S0404: 2, S0406: 2, H0436: 2, L0750: 2, L0588: 2, H0653: 2, S0192: 2, H0506: 2, H0624: 1, H0170: 1, H0686: 1, H0716: 1, H0341: 1, H0662: 1, S0418: 1, S0442: 1, S0358: 1, S0408: 1, S0046: 1, S0476: 1, H0640: 1, S0300: 1, H0431: 1, H0415: 1, H0600: 1, T0060: 1, H0013: 1, H0250: 1, H0635: 1, S0280: 1, H0098: 1, H0575: 1, H0036: 1, H0590: 1, H0318: 1, H0052: 1, H0597: 1, H0081: 1,					
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							L0751: 1, L0779: 1, L0777: 1, L0780: 1, L0753: 1, L0731: 1, H0445: 1, H0595: 1, S0434: 1, S0436: 1, L0591: 1, S0011: 1, H0668: 1, S0196: 1, L0469: 1, S0424: 1 and S0458: 1.			
HPDRG92	1011209	432	1 - 291	2607		Pro-51 to Phe-57, Ser-87 to Thr-94.	H0658: 3, L0748: 3, H0052: 1 and L0741: 1.			
HOFMQ81	1011303	433	2 - 544	2608		His-1 to Gly-12, Ser-27 to Ser-37, Pro-59 to Ser-68, Glu-94 to Ala-102, Ile-129 to Ser-143, Pro-145 to Pro-150.	AR033: 2, AR089: 2, AR039: 2, AR061: 2, AR055: 1, AR096: 1, AR060: 1, AR104: 1, AR053: 0 H0415: 2			
HOFNF27	1011315	434	3 - 680	2609		Pro-10 to Lys-26, Asn-44 to Tyr-53, Arg-104 to Lys-114, Arg-121 to Ala-134, Gly-155 to Thr-177, Gln-201 to Ser-206.	AR053: 3, AR089: 2, AR096: 1, AR060: 1, AR055: 1, AR104: 1, AR033: 1, AR039: 1, AR061: 0 H0415: 3, H0539: 2, H0355: 1 and H0375: 1.			
HOFND52	1011316	435	126 - 542	2610		Pro-9 to Arg-15, Ala-17 to Thr-26, Pro-39 to Lys-45, Asp-54 to Ala-61, Leu-86 to Gly-91, Phe-99 to Thr-106.	AR096: 1, AR060: 1, AR061: 1, AR033: 1, AR089: 1, AR039: 1, AR053: 0, AR055: 0, AR104: 0 H0415: 2			

HOFNL96	1011321	436	3 - 575	2611	Pro-3 to Ala-17, Asn-56 to Asp-62.	H0415: 1		
HOFNF53	1011332	437	2 - 1183	2612	Pro-26 to Arg-32, Gly-68 to Glu-75, Cys-111 to Asp-116.	AR052: 2, AR053: 1, AR089: 1, AR096: 1, AR055: 1, AR039: 1, AR060: 1, AR033: 1, AR061: 1, AR104: 0 H0415: 2		
HOFMU61	1011360	438	62 - 1249	2613	Ala-39 to Thr-44, Thr-171 to Lys-180.	AR052: 1, AR096: 1, AR089: 1, AR060: 1, AR033: 1, AR053: 0, AR061: 0, AR104: 0, AR039: 0, AR055: 0 H0415: 4		
HOFOF35	1011499	439	1 - 639	2614	Ser-13 to Glu-26, Ser-48 to Val-55, Lys-85 to Thr-91, Asp-115 to Asn-126, Asp-169 to Lys-175.	H0415: 2		
HULFJ37	1011537	440	915 - 364	2615		H0620: 11, H0683: 10, H0483: 7, H0046: 7, H0687: 6, S0360: 4, H0012: 4, H0428: 4, L0471: 3, L0665: 3, H0520: 3, H0670: 3, H0672: 3, L0750: 3, H0624: 2, H0662: 2, H0333: 2, H0013: 2, H0530: 2, H0024: 2,	11p11.2	133701, 168500, 171650, 176930, 176930, 600623, 600811, 600958

	H0594: 2, L0381: 2, H0144: 2, H0547: 2, H0435: 2, L0593: 2, L0601: 2, H0352: 2, H0294: 1, H0341: 1, H0661: 1, H0664: 1, H0240: 1, S0354: 1, S0358: 1, S0376: 1, H0675: 1, S0007: 1, S0046: 1, H0369: 1, H0370: 1, H0587: 1, H0497: 1, H0642: 1, H0575: 1, S0049: 1, H0204: 1, H0596: 1, H0178: 1, H0011: 1, H0266: 1, H0290: 1, T0006: 1, H0424: 1, S0364: 1, H0616: 1, H0087: 1, H0412: 1, H0413: 1, H0100: 1, H0647: 1, H0652: 1, S0210: 1, L0369: 1, L0769: 1, L0373: 1, L0771: 1, L0364: 1, L0649: 1, L0775: 1, L0375: 1, L0651: 1, L0776: 1, L0659: 1, L0517: 1, L0783: 1, L0382: 1, L0809: 1, L0519: 1, L0663: 1,				
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HOFME75	1011607	441	2 - 1024	2616	Arg-1 to Gly-7.	S0053: 1, H0519: 1, H0658: 1, H0660: 1, H0666: 1, S0027: 1, L0743: 1, L0740: 1, L0747: 1, L0749: 1, L0779: 1, L0777: 1, L0752: 1, L0753: 1, L0757: 1, L0759: 1, H0445: 1, H0595: 1 and L0595: 1. H0415: 5	11q13.5	133780, 266150, 276903, 276903, 276903
HOPKO74	1011608	442	136 - 1482	2617	Arg-6 to Gly-13, Gln-132 to Glu-137, Arg-179 to Ala-200, Ala-209 to Lys-215, Glu-218 to Asp-227, Pro-239 to Lys-244, Tyr-276 to Lys-283, Ile-361 to Asp-367, Met-371 to Asp- 376, Asp-391 to Lys-411, Pro-440 to Leu-449.	L0747: 55, H0551: 25, H0135: 24, S0126: 20, H0619: 14, L0750: 14, S0418: 12, S0360: 12, H0547: 12, S0028: 12, L0754: 12, L0659: 11, H0123: 10, L0665: 9, H0693: 9, S3014: 9, S0027: 9, S0040: 8, L0654: 8, L0595: 8, H0050: 7, L0363: 7, L0666: 7, L0601: 7, S0212: 6, L0717: 6, H0599: 6, H0081: 6, H0012: 6, H0024: 6,	11q13.5	133780, 266150, 276903, 276903, 276903

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L0748: 3, L0740: 3, L0751: 3, H0295: 2, S0298: 2, H0661: 2, S0356: 2, H0676: 2, H0592: 2, H0333: 2, T0039: 2, T0060: 2, H0635: 2, H0251: 2, H0046: 2, L0471: 2, H0594: 2, H0292: 2, H0615: 2, H0634: 2, H0413: 2, H0059: 2, L0564: 2, S0440: 2, S0210: 2, S0422: 2, L0598: 2, H0529: 2, L0806: 2, L0653: 2, L0438: 2, H0689: 2, H0672: 2, H0521: 2, S0406: 2, H0555: 2, S3012: 2, S0032: 2, L0755: 2, H0445: 2, L0596: 2, L0588: 2, L0589: 2, L0590: 2, S0192: 2, H0739: 1, H0171: 1, H0713: 1, H0717: 1, H0716: 1, T0049: 1, H0669: 1, H0663: 1, H0664: 1, H0662: 1, H0638: 1, S0354: 1, S0358: 1, S0410: 1, H0729: 1,					
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	H0730: 1, H0734: 1, H0437: 1, H0550: 1, H0441: 1, H0431: 1, H0392: 1, H0249: 1, H0586: 1, H0587: 1, H0497: 1, H0632: 1, T0114: 1, H0156: 1, L0021: 1, H0575: 1, T0048: 1, H0318: 1, S0049: 1, H0309: 1, H0546: 1, H0041: 1, H0172: 1, H0620: 1, T0003: 1, H0057: 1, H0051: 1, H0375: 1, H0687: 1, H0290: 1, H0284: 1, H0252: 1, H0604: 1, H0628: 1, H0617: 1, H0606: 1, H0598: 1, H0063: 1, H0087: 1, H0056: 1, H0494: 1, H0560: 1, H0359: 1, H0561: 1, S0306: 1, H0647: 1, H0646: 1, S0208: 1, S0002: 1, L0369: 1, L0763: 1, L0772: 1, L0641: 1, L0642: 1, L0643: 1, L0764: 1, L0765: 1, L0648: 1, L0650: 1, L0774: 1,				
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HCBBA51	1011755	443	57 - 266	2618	Pro-11 to Phe-16, Thr-48 to Ser-60.	L0651: 1, L0508: 1, L0656: 1, L0782: 1, L0783: 1, L0383: 1, L0519: 1, L0545: 1, L0543: 1, L5623: 1, L0793: 1, S0006: 1, H0144: 1, H0682: 1, H0435: 1, H0660: 1, H0539: 1, H0522: 1, H0694: 1, L0439: 1, L0758: 1, L0362: 1, S0011: 1, H0668: 1, H0665: 1, H0667: 1, S0194: 1, S0196: 1, H0542: 1, S0042: 1 and H0008: 1.		
						H0659: 16, L0747: 15, S0358: 14, L0005: 13, L0758: 9, S0360: 8, L0775: 8, H0648: 8, H0657: 6, L0731: 6, L0757: 6, H0341: 5, H0412: 5, S0440: 5, H0658: 5, H0710: 5, L0750: 5, L0588: 5, S0007: 4, S0046: 4, H0599: 4, L0520: 4, L0764: 4, L0768: 4, H0170: 3, H0306: 3, H0125: 3, S0408: 3,		

			H0309: 3, H0039: 3, H0617: 3, H0413: 3, L0809: 3, L0519: 3, S0126: 3, S0406: 3, H0576: 3, H0422: 3, S0134: 2, L0808: 2, S0116: 2, H0661: 2, H0663: 2, H0393: 2, L0394: 2, S0222: 2, H0586: 2, L0622: 2, L0623: 2, H0486: 2, T0109: 2, S0280: 2, H0581: 2, H0596: 2, H0231: 2, S0003: 2, T0006: 2, H0674: 2, H0598: 2, H0100: 2, S0438: 2, H0633: 2, L0772: 2, L0521: 2, L0767: 2, H0144: 2, S0374: 2, H0672: 2, S0328: 2, S0330: 2, S0152: 2, S0032: 2, L0755: 2, L0759: 2, S0031: 2, H0595: 2, S0026: 2, T0002: 1, H0686: 1, H0685: 1, S6024: 1, H0294: 1, T0049: 1, S0282: 1, H0255: 1, H0669: 1, H0664: 1, H0177: 1,		
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HDHEB13	1011773	444	31 - 972	2619	Gly-1 to Glu-11, Arg-54 to Ser-60, Pro-68 to Gly-78, Pro-92 to Gly-126, Ala-134 to Asn-143, Thr-145 to Gly-162, Gly-173 to Ser-179, Lys-187 to Leu-194, Glu-205 to Ser-213, Ser-283 to Phe-289, Ala-306 to Glu-313.	L0777: 4, L0747: 3, S0007: 1, H0351: 1, H0550: 1, H0013: 1, H0570: 1, H0123: 1, H0019: 1, H0012: 1, H0553: 1, L0794: 1, L0759: 1 and H0352: 1.				
HDTMG36	1011821	445	3 - 248	2620	Pro-28 to Gln-35, Leu-71 to Pro-77.					
HVVCJ38	1011830	446	2 - 817	2621	Thr-121 to Asn-126, Ala-134 to Ala-140, Arg-174 to Arg-184,	L0771: 5, L0439: 5, L0761: 4, L0794: 4, L0809: 4, L0666: 4,				

Ser-194 to Glu-199, Met-208 to Gln-217, Arg-258 to Gly-263.	L0743: 4, L0758: 4, H0661: 3, H0638: 3, H0618: 3, L0770: 3, L0803: 3, L0659: 3, L0790: 3, H0662: 2, H0181: 2, S0144: 2, S0142: 2, L0800: 2, L0663: 2, H0539: 2, L0740: 2, L0750: 2, H0713: 1, H0583: 1, S0212: 1, H0483: 1, H0402: 1, S0418: 1, S0356: 1, S0360: 1, S0222: 1, H0486: 1, T0109: 1, H0250: 1, H0575: 1, H0253: 1, H0052: 1, H0194: 1, H0544: 1, H0546: 1, H0545: 1, H0024: 1, H0355: 1, H0688: 1, H0617: 1, H0124: 1, H0135: 1, H0163: 1, H0413: 1, S0038: 1, T0041: 1, H0509: 1, H0529: 1, L0371: 1, L0769: 1, L0638: 1, L0764: 1, L0648: 1, L0662: 1, L0804: 1, L0775: 1, L0629: 1, L0657: 1, L0656: 1,				
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HPAMY22	1011840	447	1 - 180	2622	Pro-18 to Gln-36, Ser-43 to Ala-57.		H0682: 1			
HE9CP86	1011847	448	107 - 727	2623	Arg-13 to Arg-19, Asp-37 to Asp-43, Glu-127 to Asp-132, Asn-152 to Glu-171, Ala-179 to Ala-193.		L0748: 18, L0749: 8, L0755: 7, H0686: 4, S0360: 3, H0519: 3, H0659: 3, L0747: 3, L0758: 3, H0341: 2, H0622: 2, H0040: 2, H0616: 2, L0772: 2, L0375: 2, L0754: 2, L0779: 2, H0542: 2, H0294: 1, H0657: 1, H0656: 1, S0116: 1, H0663: 1, H0638: 1, S0376: 1, H0393: 1, H0083: 1, H0030: 1, L0055: 1, H0068: 1, H0591: 1, H0038: 1, H0412: 1, H0100: 1, L0475: 1, S0422: 1, L0763: 1, L0771: 1;			

							L0767: 1, L0768: 1, L0784: 1, L0776: 1, L0633: 1, L0783: 1, L0665: 1, H0144: 1, H0682: 1, S0378: 1, H0627: 1, L0752: 1, L0731: 1, S0026: 1, H0665: 1, S0242: 1 and H0543: 1.			
HPDOU46	1011883	449	24 - 692	2624			H0658: 2, L0750: 2, L0806: 1, L0790: 1 and L0779: 1.			
HFCDW73	1011901	450	3 - 425	2625			H0575: 1 and H0009: 1.			
HOVEB13	1011919	451	21 - 905	2626	Val-7 to Ser-12, Leu-79 to Asn-87, Lys-120 to Ala-125, Ala-166 to Arg-171, Lys-208 to Phe-217, Gln-234 to Pro-241, Asp-285 to Gln-290.	AR033: 6, AR089: 5, AR096: 4, AR055: 3, AR052: 3, AR060: 3, AR053: 2, AR061: 2, AR039: 1, AR104: 0 L0779: 4, H0428: 3, L0773: 2, L0662: 2, L0659: 2, L0602: 2, L0777: 2, L0596: 2, L0608: 2, H0170: 1, H0580: 1, S0045: 1, T0048: 1, H0052: 1, L0471: 1, H0628: 1, L0770: 1, L0761: 1, L0805: 1, L0653: 1, L0657: 1, L0512: 1,				

HPAMS93	1011948	452	74 - 1114	2627				H0682: 1, H0672: 1, L0748: 1, L0740: 1, L0749: 1, L0757: 1, S0031: 1, H0543: 1 and H0677: 1.		
								L0754: 8, L0766: 6, L0439: 6, S0414: 4, L0758: 4, S0360: 3, L0803: 3, L0666: 3, L0756: 3, L0731: 3, S0218: 2, H0676: 2, H0251: 2, H0457: 2, H0083: 2, H0038: 2, H0616: 2, L0770: 2, L0775: 2, H0144: 2, H0682: 2, H0436: 2, L0752: 2, L0485: 2, L0594: 2, H0624: 1, S0430: 1, H0657: 1, H0341: 1, S0358: 1, H0411: 1, H0431: 1, T0039: 1, H0013: 1, L0021: 1, H0194: 1, H0050: 1, H0020: 1, H0051: 1, H0375: 1, H0594: 1, S0003: 1, H0272: 1, S0386: 1, H0494: 1, S0438: 1, H0652: 1, S0422: 1, H0529: 1, L0765: 1,		



							L0771: 1, L0521: 1, L0804: 1, L0774: 1, L0651: 1, L0776: 1, L0655: 1, L0659: 1, L0809: 1, L0647: 1, L0789: 1, L0790: 1, L0663: 1, L0664: 1, L0665: 1, S0374: 1, L0438: 1, H0519: 1, S0188: 1, H0478: 1, H0626: 1, S0028: 1, L0779: 1, L0777: 1, L0780: 1, L0759: 1, S0031: 1, H0445: 1 and S0026: 1.			
HCRBN71	1011966	453	1 - 420	2628			L0776: 6, L0766: 5, L0777: 3, L0758: 3, L0755: 2, H0327: 1, L0768: 1, L0805: 1, L0655: 1, L0788: 1, H0648: 1, H0672: 1, S0406: 1, L0747: 1, L0752: 1, L0757: 1 and S0196: 1.			
HCRNC60	1012005	454	637 - 1302	2629	Pro-16 to Asp-25, Arg-44 to Glu-50, Ser-63 to Arg-69, Glu-108 to Arg-115, Lys-122 to Gly-136, Arg-143 to Met-151,	L0471: 11, H0251: 9, L0163: 7, H0599: 5, H0295: 4, H0373: 4, S0210: 4, S0126: 3, S0356: 2, S0358: 2, H0619: 2, H0012: 2,	15q22.1	151670, 191010, 601780		

Asp-167 to Glu-173, Asp-185 to Glu-194, Thr-206 to Asp-213.	H0628: 2, S0364: 2, H0551: 2, H0519: 2, S0026: 2, H0170: 1, T0049: 1, S0134: 1, H0656: 1, H0662: 1, S0418: 1, S0420: 1, S0354: 1, S0360: 1, T0008: 1, H0411: 1, H0431: 1, H0432: 1, H0592: 1, S0005: 1, H0574: 1, H0270: 1, T0039: 1, H0013: 1, H0002: 1, H0036: 1, S0010: 1, S0474: 1, H0196: 1, T0115: 1, H0597: 1, H0545: 1, H0050: 1, H0024: 1, S0362: 1, H0200: 1, H0266: 1, S0022: 1, H0252: 1, H0039: 1, H0644: 1, H0032: 1, S0366: 1, H0090: 1, H0591: 1, T0041: 1, T0042: 1, H0509: 1, S0374: 1, H0520: 1, H0670: 1, H0651: 1, H0539: 1, S0380: 1, S0044: 1, S0118: 1, S0028: 1, L0748: 1, L0757: 1, L0588: 1,					
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HSPSJ24	1012064	455	284 - 925	2630	Pro-83 to Gln-90, Ala-123 to Gly-131, Glu-174 to Pro-183.	S0011: 1, H0653: 1, H0665: 1, S0242: 1 and H0506: 1. S0358: 2, S0360: 2, H0251: 2, H0622: 2, S0144: 2, L0659: 2, L0751: 2, L0777: 2, H0265: 1, S0134: 1, H0657: 1, H0486: 1, H0575: 1, S0010: 1, H0581: 1, H0052: 1, H0085: 1, H0266: 1, H0687: 1, H0644: 1, H0617: 1, L0662: 1, L0766: 1, L0549: 1, L0774: 1, L0775: 1, L0806: 1, L0657: 1, L0382: 1, H0683: 1, H0522: 1, H0555: 1, H0576: 1, L0754: 1, L0749: 1, L0758: 1, L0599: 1 and S0446: 1.	14q11.2	182600, 186880, 190195, 190195, 222700, 600243, 602279, 602279
HPCPB22	1012076	456	3 - 554	2631	Arg-88 to Lys-93, Tyr-101 to Gly-107, Arg-169 to Pro-184.	H0659: 2 and L0378: 1.		
HOVDZ22	1012136	457	2 - 169	2632	Tyr-1 to Gly-13.	H0529: 7, L0766: 6, L0809: 6, L0777: 5, H0428: 3, H0656: 2, H0013: 2, H0620: 2, L0806: 2, L0665: 2,		

HBZSK53	1012240	458	2 - 721	2633	Pro-6 to Gln-11.	H0547: 2, L0748: 2, L0747: 2, L0756: 2, L0601: 2, H0484: 1, H0192: 1, S0420: 1, S0358: 1, H0575: 1, H0581: 1, H0046: 1, H0012: 1, T0010: 1, H0266: 1, H0622: 1, H0165: 1, H0673: 1, L0456: 1, H0068: 1, H0135: 1, H0087: 1, H0264: 1, H0412: 1, H0560: 1, L0763: 1, L0770: 1, L0771: 1, L0649: 1, L0561: 1, L0375: 1, L0805: 1, L0776: 1, L0518: 1, L0783: 1, L0666: 1, L0663: 1, H0520: 1, H0519: 1, S0126: 1, H0659: 1, H0672: 1, H0539: 1, H0436: 1, S3014: 1, L0741: 1, L0749: 1, L0750: 1, L0779: 1, L0731: 1, L0589: 1, L0581: 1, L0608: 1 and S0011: 1.	H0584: 59, S0278: 16, S0444: 10, L0775: 10, L0809: 10, H0545: 9,		
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[illegible]

					Leu-38 to Gly-59, Pro-62 to Thr-75, Met-83 to Val-90, Thr-94 to Ser-105, Pro-109 to Glu-125, Phe-134 to Ser-139, Ile-141 to Lys-162, Cys-166 to Pro-180, Leu-202 to Pro-207, Ile-248 to Asn-253.	S0114: 2, H0123: 2, H0494: 2, H0445: 2, H0663: 1, H0455: 1, H0036: 1, H0457: 1, H0050: 1, H0039: 1, H0212: 1, H0433: 1, L0766: 1, S0206: 1 and L0749: 1.			
HCONM62	1012454	460	20 - 1306	2635		H0521: 181, L0748: 11, H0551: 10, H0617: 8, H0046: 7, L0731: 7, H0623: 6, L0663: 6, H0547: 6, H0265: 5, S0418: 5, H0009: 5, H0553: 5, H0670: 5, L0740: 5, L0759: 5, H0556: 4, S0376: 4, S0046: 4, H0266: 4, H0135: 4, S0344: 4, L0665: 4, S0374: 4, H0689: 4, H0435: 4, H0658: 4, S3014: 4, S0206: 4, L0596: 4, H0543: 4, S0212: 3, H0483: 3, S0410: 3, S0132: 3, H0592: 3, H0012: 3, H0620: 3, H0039: 3, H0488: 3,	7q31	126650, 126650, 164860, 180105, 222800, 246900, 274600, 274600, 602081	

					L0372: 3, L0764: 3, L0666: 3, H0519: 3, S0027: 3, S0028: 3, L0439: 3, L0750: 3, L0777: 3, H0665: 3, H0656: 2, H0638: 2, L0562: 2, L0539: 2, S0360: 2, H0208: 2, S0045: 2, L0717: 2, H0549: 2, H0586: 2, H0156: 2, H0052: 2, H0545: 2, H0024: 2, H0424: 2, H0213: 2, H0030: 2, H0087: 2, H0100: 2, T0042: 2, H0494: 2, H0560: 2, H0561: 2, S0440: 2, L0369: 2, L0640: 2, L0761: 2, L0646: 2, L0659: 2, L0540: 2, L0382: 2, L0809: 2, L0664: 2, L0438: 2, H0593: 2, H0648: 2, H0555: 2, L0757: 2, L0758: 2, S0434: 2, L0595: 2, S0192: 2, H0423: 2, H0422: 2, H0677: 2, H0624: 1, S0342: 1, S0218: 1, H0650: 1, H0657: 1,
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	H0341: 1, S0282: 1, H0255: 1, H0661: 1, H0662: 1, S0420: 1, S0356: 1, S0358: 1, S0444: 1, S0408: 1, H0645: 1, H0261: 1, H0550: 1, S0222: 1, H0441: 1, H0370: 1, H0587: 1, S0005: 1, H0333: 1, H0331: 1, T0040: 1, T0082: 1, T0048: 1, S0182: 1, H0318: 1, H0581: 1, S0049: 1, H0196: 1, H0251: 1, H0596: 1, H0327: 1, H0544: 1, H0572: 1, H0050: 1, L0471: 1, H0687: 1, H0286: 1, S0340: 1, S0003: 1, H0428: 1, H0033: 1, H0604: 1, H0644: 1, H0628: 1, H0181: 1, H0606: 1, L0055: 1, H0169: 1, L0455: 1, H0124: 1, S0366: 1, S0036: 1, H0040: 1, H0063: 1, H0433: 1, S0038: 1, L0475: 1, H0132: 1, H0641: 1, S0144: 1,				
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HOGU69	1012459	461	2 - 691	2636	Arg-1 to Ala-11, Ser-118 to Gln-126, Leu-200 to Thr-207, Lys-213 to Ala-218, Glu-225 to Thr-230.	S0422: 1, S0002: 1, L0598: 1, H0529: 1, L0641: 1, L0374: 1, L0645: 1, L0648: 1, L0650: 1, L0375: 1, L0378: 1, L0806: 1, L0653: 1, L0776: 1, L0655: 1, L0661: 1, L0634: 1, L0636: 1, L0517: 1, L0518: 1, L0384: 1, L0647: 1, L0789: 1, L0791: 1, L0792: 1, H0144: 1, H0701: 1, S0126: 1, H0690: 1, H0659: 1, H0672: 1, H0539: 1, S0378: 1, H0518: 1, S0152: 1, S0044: 1, H0576: 1, H0631: 1, S0032: 1, L0741: 1, L0743: 1, L0745: 1, L0779: 1, L0752: 1, L0592: 1, H0668: 1 and H0542: 1.	5q22-q23	121050, 126150, 159000, 175100, 175100, 175100,
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175100, 175100, 175100, 179095, 192974, 192974, 601596					

							L0749: 1, L0758: 1, H0445: 1, L0595: 1 and S0192: 1.			
HVVD93	1012469	462	2 - 829	2637	Gln-3 to Cys-12, Thr-19 to Thr-25.		L0758: 5, L0769: 4, L0766: 3, L0809: 3, L0774: 2, L0790: 2, L0663: 2, L0439: 2, L0752: 2, S0218: 1, H0583: 1, S0442: 1, S6022: 1, H0441: 1, H0574: 1, H0150: 1, S0388: 1, S0364: 1, H0743: 1, L0369: 1, L0770: 1, L0638: 1, L0644: 1, L0764: 1, L0648: 1, L0662: 1, L0794: 1, L0803: 1, L0636: 1, L0368: 1, L0666: 1, L0664: 1, L0565: 1, L0438: 1, H0682: 1, H0672: 1, L0741: 1, L0743: 1, L0748: 1, L0751: 1, L0754: 1, L0747: 1, L0749: 1, L0777: 1, L0759: 1, S0434: 1 and L0592: 1.			
HCOMV86	1012482	463	313 - 834	2638			H0521: 91, H0580: 23, H0522: 22, H0445: 14, H0638: 12, H0656: 11,	6p21.3	106300, 108800, 120290,	

H0486: 8, H0090: 7, H0583: 5, H0125: 5, S0358: 5, H0581: 5, H0591: 5, H0561: 5, H0657: 4, S0442: 4, H0575: 4, H0634: 4, H0134: 4, H0427: 3, H0318: 3, H0050: 3, H0264: 3, H0648: 3, H0518: 3, L0599: 3, H0650: 2, S0376: 2, S0408: 2, H0586: 2, H0069: 2, H0635: 2, H0086: 2, H0252: 2, H0488: 2, H0560: 2, H0641: 2, L0776: 2, H0660: 2, L0748: 2, L0745: 2, S0434: 2, H0265: 1, H0556: 1, S0360: 1, H0676: 1, H0637: 1, H0619: 1, H0393: 1, H0440: 1, H0549: 1, H0431: 1, H0592: 1, H0574: 1, H0250: 1, H0004: 1, H0421: 1, H0242: 1, H0375: 1, H0109: 1, T0023: 1, H0031: 1, H0673: 1, H0376: 1, H0063: 1, S0440: 1,	120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550, 600202, 600261, 601868, 602280, 602475
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HCONJ23	1012519	464	43 - 990	2639	Met-8 to Lys-13, Pro-23 to Trp-30.	H0647: 1, H0646: 1, S0002: 1, S0426: 1, L0768: 1, L0649: 1, L0805: 1, L0659: 1, H0702: 1, H0689: 1, H0684: 1, H0670: 1, H0539: 1, H0709: 1, S0146: 1, H0576: 1, L0744: 1, L0754: 1, L0749: 1, L0750: 1, L0777: 1, L0752: 1, L0755: 1, S0260: 1, S0308: 1, H0707: 1, L0581: 1, H0677: 1 and H0506: 1.	8q11	600899
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HVVBL04	1012536	465	2 - 310	2640	Lys-2 to Glu-13, Asn-39 to Glu-47, Arg-49 to Glu-56, Lys-73 to Arg-85.	H0672: 2					
HVVAF65	1012542	466	3 - 731	2641		L0748: 19, L0439: 7, L0731: 6, L0775: 4, S0356: 2, H0421: 2, H0509: 2, L0805: 2, L0783: 2, L0809: 2,	17q24-q25	114290, 115660, 138033, 139250, 148500,			



HCONN76	1012545	467	1 - 1716	2642	Tyr-1 to Ser-12.	S0136: 2, L0740: 2, L0747: 2, L0749: 2, L0599: 2, L0362: 2, H0170: 1, S0470: 1, L0005: 1, S0354: 1, S0376: 1, S0045: 1, S0278: 1, H0642: 1, H0331: 1, H0574: 1, H0036: 1, S0346: 1, H0318: 1, L0157: 1, H0050: 1, L0471: 1, H0024: 1, H0275: 1, H0594: 1, H0267: 1, S0003: 1, H0031: 1, H0412: 1, T0069: 1, H0100: 1, T0041: 1, L0475: 1, S0142: 1, S0002: 1, L0769: 1, L0776: 1, L0655: 1, L0527: 1, L0664: 1, S0374: 1, L0438: 1, H0658: 1, H0672: 1, S0380: 1, S0350: 1, H0521: 1, S0146: 1, L0777: 1, L0752: 1, L0753: 1, L0757: 1 and L0581: 1.	21q22.3	H0423: 16, H0521: 11, L0777: 10, H0622: 9, L0751: 9, H0641: 8.	120220, 120240, 123580,
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HVV AF56	1012568	468	3 - 1382	2643	Cys-2 to Ser-16, Glu-55 to Lys-61, Pro-83 to Leu-88, Ser-135 to Pro-148, Val-152 to Arg-163, Pro-223 to Thr-230, Ala-242 to Val-253, Arg-258 to Glu-274, Gly-290 to Asp-300, Lys-337 to Asn-345, Asp-373 to Ala-398, Gly-401 to Lys-406, Gln-410 to Ala-430, Pro-433 to Gln-460.	S0434: 1, L0604: 1 and H0542: 1.  L0766: 9, L0777: 9, H0529: 8, H0521: 7, L0731: 7, S0360: 6, L0758: 6, H0494: 5, L0749: 5, L0759: 5, S0376: 4, H0639: 4, S0422: 4, L0665: 4, H0144: 4, H0520: 4, H0547: 4, L0439: 4, H0423: 4, S0424: 4, H0581: 3, L0471: 3, H0266: 3, S0150: 3, L0764: 3, L0803: 3, L0659: 3, L0666: 3, H0519: 3, H0659: 3, H0696: 3, L0755: 3, H0716: 2, H0662: 2, S0356: 2, S0046: 2, H0013: 2, H0545: 2, H0457: 2, H0551: 2, H0100: 2, L0475: 2, L0598: 2, L0763: 2, L0770: 2, L0637: 2, L0772: 2, L0765: 2, L0662: 2, L0649: 2, L0774: 2, L0775: 2, L0776: 2, L0809: 2, H0689: 2, S0406: 2.		
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							S0460: 1, H0506: 1 and H0352: 1.		
HODEG95	1012599	469	243 - 749	2644	Arg-33 to Gly-38, Pro-40 to Lys-52.		H0615: 2 and H0343: 1.		
HCOOX52	1012600	470	2 - 1567	2645	Arg-41 to Gly-65, Pro-88 to Ser-96, Thr-104 to Thr-141, Glu-209 to Asn-214, Arg-263 to Ser-269, Ser-274 to Ala-279, Lys-290 to Ile-296, Lys-320 to Glu-333, Val-517 to Ala-522.	L0581: 63, L0748: 35, H0575: 22, L0599: 19, H0046: 17, L0659: 17, L0745: 16, H0510: 15, L0662: 15, L0665: 15, L0747: 14, H0509: 12, L0744: 12, L0754: 12, H0069: 11, L0751: 11, H0574: 10, L0750: 10, H0031: 9, H0124: 9, L0757: 9, H0150: 8, H0039: 8, S0360: 7, S0132: 7, H0644: 7, S0027: 7, S0212: 6, H0393: 6, H0622: 6, H0591: 6, L0803: 6, L0806: 6, H0658: 6, S0044: 6, S0028: 6, S0358: 5, H0549: 5, H0331: 5, H0427: 5, H0251: 5, H0014: 5, H0687: 5, H0059: 5, L0595: 5, L0600: 5, H0632: 4, H0618: 4, H0200: 4, H0090: 4, H0038: 4, L0770: 4,	11q12-q13.1	I06100, 133780, 147050, 259700, 259770, 600045, 601650, 601884	

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HVVR10	1012618	471	3 - 1079	2646	Lys-52 to Ser-59, Lys-121 to Pro-128, Ser-183 to Thr-189.	H0422: 1, S0042: 1, H0008: 1 and H0352: 1, L0439: 13, L0748: 11, L0601: 8, L0747: 7, L0750: 7, L0438: 5, L0757: 5, L0770: 4, L0769: 4, L0764: 4, L0766: 4, L0731: 4, L0803: 3, L0775: 3, L0666: 3, H0521: 3, L0751: 3, L0758: 3, S0418: 2, H0550: 2, H0013: 2, H0052: 2, H0622: 2, H0494: 2, L0646: 2, L0771: 2, L0774: 2, L0663: 2, L0565: 2, H0593: 2, H0689: 2, H0672: 2, S0328: 2, L0752: 2, L0587: 2, L0600: 2, H0556: 1, H0583: 1, H0656: 1, H0341: 1, S0001: 1, S0360: 1, H0549: 1, H0455: 1, H0586: 1, H0587: 1, H0156: 1, H0253: 1, H0318: 1, H0581: 1, T0110: 1, H0150: 1, H0019: 1, H0050: 1, H0620: 1, S0050: 1.		
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HVVBK78	1012645	472	44 - 643	2647	Arg-11 to Arg-20.	H0672: 1 and S3014: 1.								
HVVBK73	1012646	473	2 - 745	2648		H0036: 1, H0644: 1, H0672: 1 and L0603: 1.	7q34-qter							

HCOMW35	1012652	474	3 - 527	2649	Asp-49 to Asp-59, Asp-110 to Ile-115, Trp-137 to Ser-144.	L0766: 10, S0358: 4, H0318: 3, L0809: 3, S0360: 2, H0617: 2, H0264: 2, L0769: 2, L0775: 2, H0670: 2, H0462: 1, H0646: 1, L0761: 1, L0764: 1, L0771: 1, L0773: 1, L0805: 1, L0787: 1, S0374: 1, H0684: 1, L0779: 1 and L0758: 1.	22q13.31	250100, 250800, 250800
HVVB28	1012654	475	2 - 1117	2650	Arg-1 to Gly-12, Gly-19 to Trp-25, Asp-31 to Gly-39, Gly-43 to Glu-52, Ala-63 to His-71, Asn-141 to Phe-152, Leu-200 to Leu-208.	L0803: 4, L0745: 4, L0758: 4, H0672: 3, S0007: 2, H0090: 2, L0769: 2, L0804: 2, L0774: 2, L0809: 2, L0439: 2, L0749: 2, L0731: 2, L0599: 2, L0362: 2, S0418: 1, S0360: 1, S0046: 1, H0431: 1, H0486: 1, H0013: 1, L0021: 1, H0042: 1, S0010: 1, H0052: 1, H0046: 1, H0024: 1, H0266: 1, H0687: 1, S0022: 1, H0553: 1, L0770: 1, L0794: 1, L0783: 1, L0529: 1, H0435: 1, S0152: 1, H0521: 1,	4q27-q28	107250, 134820, 134820, 134820, 134830, 134850, 134850, 147680, 181600, 189800, 266300, 600919

HVVR45	1012657	476	102 - 1742	2651	Arg-23 to Thr-28, Val-58 to Leu-67, Pro-115 to Thr-122.	S0044: 1, H0555: 1, S0260: 1, L0366: 1, H0543: 1 and H0352: 1, L0747: 15, L0740: 14, L0779: 13, L0439: 9, L0731: 9, L0748: 8, L0776: 7, L0455: 6, L0769: 6, L0744: 6, L0756: 6, L0758: 6, S0328: 5, H0521: 5, L0752: 5, H0295: 4, L0717: 4, L0663: 4, H0672: 4, S0360: 3, S0046: 3, H0427: 3, H0599: 3, H0036: 3, H0687: 3, S0250: 3, S0022: 3, S0036: 3, L0770: 3, L0662: 3, L0774: 3, L0806: 3, L0783: 3, S0052: 3, H0144: 3, S0126: 3, H0660: 3, H0539: 3, L0742: 3, S0194: 3, H0556: 2, T0049: 2, H0662: 2, S0045: 2, H0619: 2, L0622: 2, H0013: 2, H0318: 2, S0049: 2, H0356: 2, H0553: 2, S0364: 2, S0366: 2, H0551: 2,	17q21.3	109270, 109270, 109270, 109270, 109270, 148065, 148080, 154275, 156490, 171190, 185800, 221820, 249000, 253250, 600119, 600119, 600525, 601844
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HVVAF41	1012665	477	59 - 550	2652	Pro-58 to Ser-64.	S0260: 1, H0595: 1, L0591: 1, L0601: 1, L0366: 1, H0665: 1, H0667: 1, S0458: 1, S0446: 1 and H0352: 1.	11q23	107680, 107680, 107680, 107680, 107680, 107720, 133780, 147791, 159555, 168000, 186740, 186830, 188025, 203750, 261640, 600048, 601382, 602574, 602574
						L0740: 15, L0748: 14, L0752: 10, H0494: 9, L0745: 9, H0013: 7, L0774: 7, L0754: 7, S0358: 6, S0444: 6, L0771: 6, S0374: 6, L0471: 5, H0032: 5, L0646: 5, L0655: 5, H0580: 4, H0574: 4, H0014: 4, H0373: 4, S0003: 4, H0529: 4, L0770: 4, L0766: 4, L0659: 4, L0665: 4, H0624: 3, S0376: 3, S0360: 3, S0408: 3, H0592: 3, H0039: 3, H0090: 3, T0042: 3, L0773: 3, L0662: 3, L0775: 3, L0663: 3, L0581: 3, H0423: 3, H0156: 2, H0599: 2, H0575: 2, H0590: 2, H0318: 2, H0581: 2, H0457: 2, H0123: 2, H0356: 2, H0553: 2,		

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				H0597: 1, L0738: 1, H0545: 1, H0355: 1, H0510: 1, H0375: 1, H0266: 1, H0188: 1, H0644: 1, L0055: 1, S0364: 1, H0038: 1, H0380: 1, H0623: 1, T0041: 1, L0475: 1, H0560: 1, H0625: 1, H0561: 1, S0466: 1, H0509: 1, H0641: 1, H0646: 1, H0652: 1, S0344: 1, S0422: 1, H0517: 1, L0772: 1, L0642: 1, L0768: 1, L0388: 1, L0650: 1, L0651: 1, L0806: 1, L0776: 1, L0606: 1, L0661: 1, L0647: 1, L0787: 1, L0789: 1, H0520: 1, H0519: 1, H0689: 1, H0658: 1, H0670: 1, H0660: 1, S0328: 1, S0330: 1, H0539: 1, L0602: 1, H0522: 1, S0406: 1, L0749: 1, L0777: 1, H0445: 1, L0596: 1, L0588: 1, H0653: 1, H0667: 1, S0192: 1,	
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							H0542: 1, H0543: 1, S0424: 1, S0452: 1 and S0458: 1.			
HVVAS32	1012668	478	105 - 2138	2653			L0439: 7, S0136: 5, L0438: 4, L0749: 4, L0777: 4, L0752: 4, S0010: 3, H0672: 3, S0116: 2, L0717: 2, H0013: 2, H0057: 2, H0068: 2, H0551: 2, S0002: 2, L0763: 2, L0662: 2, L0794: 2, L0766: 2, L0803: 2, L0805: 2, L0776: 2, L0547: 2, L0789: 2, L0666: 2, L0665: 2, H0670: 2, H0521: 2, H0555: 2, L0748: 2, L0751: 2, L0747: 2, L0731: 2, L0758: 2, L0759: 2, L0599: 2, H0170: 1, T0002: 1, S0040: 1, S0212: 1, S0358: 1, S0045: 1, S0046: 1, H0619: 1, H0393: 1, H0392: 1, H0409: 1, H0485: 1, H0486: 1, H0244: 1, H0427: 1, L0021: 1, S0346: 1, H0196: 1,	3q13	146200, 190300, 258900, 600882	

						H0052: 1, H0596: 1, H0150: 1, H0562: 1, H0024: 1, H0373: 1, T0010: 1, S6028: 1, H0687: 1, T0023: 1, H0553: 1, H0644: 1, S0364: 1, H0090: 1, H0040: 1, H0616: 1, T0067: 1, H0413: 1, S0038: 1, S0386: 1, S0150: 1, H0641: 1, L0520: 1, L0770: 1, L0637: 1, L0772: 1, L0372: 1, L0646: 1, L0800: 1, L0773: 1, L0768: 1, L0659: 1, L0782: 1, L0663: 1, H0144: 1, H0520: 1, H0593: 1, H0659: 1, H0658: 1, S0328: 1, S0044: 1, S0037: 1, S0028: 1, L0740: 1, L0756: 1, L0779: 1, L0780: 1, H0665: 1, S0192: 1 and S0194: 1.			
HVVAQ70	1012678	479	131 - 982	2654	Leu-59 to Cys-66, Gln-74 to Leu-82, Asn-107 to Arg-121, Thr-160 to Ser-166, Lys-198 to Ile-203.	L0747: 13, L0731: 10, H0144: 8, L0809: 6, L0604: 6, L0769: 5, L0666: 5, L0663: 5, L0740: 5, L0759: 5,	8p11.2	136350, 152760, 180100, 182900, 277700,	

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							H0031: 1, H0090: 1, H0038: 1, H0063: 1, H0087: 1, H0551: 1, H0413: 1, S0038: 1, T0042: 1, H0494: 1, H0560: 1, H0142: 1, L0520: 1, L0637: 1, L0800: 1, L0773: 1, L0521: 1, L0662: 1, L0768: 1, L0794: 1, L0803: 1, L0804: 1, L0774: 1, L0806: 1, L0776: 1, L0655: 1, L0657: 1, L0512: 1, L0558: 1, L0636: 1, L0635: 1, H0520: 1, H0519: 1, H0684: 1, H0660: 1, H0666: 1, H0672: 1, S0330: 1, H0522: 1, H0576: 1, S3014: 1, L0742: 1, L0758: 1, H0444: 1, L0594: 1, H0667: 1, H0136: 1, H0543: 1 and H0506: 1.			
HVVAQ22	1012684	480	43 - 573	2655	His-1 to Asn-13, Ser-31 to Ser-42, Glu-47 to Val-55, Glu-65 to Val-70, Ile-95 to Asp-100,	L0731: 25, H0696: 17, L0754: 13, S0192: 13, L0809: 12, L0750: 12, L0757: 10, L0519: 9, L0605: 8, L0748: 7,	3cen-q21			

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		H0664: 1, H0662: 1, S0408: 1, H0339: 1, S0300: 1, L0717: 1, H0600: 1, H0592: 1, H0587: 1, H0486: 1, H0013: 1, T0082: 1, S0346: 1, S0474: 1, H0251: 1, H0085: 1, H0596: 1, H0231: 1, H0544: 1, H0123: 1, T0003: 1, H0014: 1, L0163: 1, H0375: 1, H0687: 1, S0214: 1, H0328: 1, H0553: 1, H0644: 1, H0163: 1, H0090: 1, H0551: 1, H0264: 1, L0386: 1, L0533: 1, L0774: 1, L0376: 1, L0784: 1, L0378: 1, L0653: 1, L0654: 1, L0559: 1, L0659: 1, L0518: 1, L0530: 1, L0788: 1, L0791: 1, L0666: 1, L0665: 1, H0693: 1, H0658: 1, H0670: 1, S0378: 1, S0380: 1, S0044: 1, S0190: 1, S0174: 1, S0168: 1, L0751: 1, L0779: 1,				
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HTAES83	1012693	481	200 - 2128	2656	Pro-55 to Asp-61, Gln-66 to Leu-72.	L0780: 1, S0031: 1 and S0412: 1. H0457: 7, H0521: 7, H0150: 5, H0585: 4, H0255: 3, H0546: 3, H0617: 3, S0002: 3, L0659: 3, H0522: 3, S0434: 3, H0650: 2, H0254: 2, S0442: 2, S0376: 2, H0250: 2, S0003: 2, H0039: 2, H0553: 2, L0771: 2, L0662: 2, L0766: 2, H0689: 2, H0682: 2, L0751: 2, H0657: 1, S0116: 1, H0402: 1, S0418: 1, S0358: 1, S0360: 1, S0132: 1, S6026: 1, L0717: 1, S0278: 1, H0549: 1, H0610: 1, H0257: 1, H0559: 1, H0069: 1, H0581: 1, H0544: 1, H0271: 1, H0687: 1, H0286: 1, S0314: 1, H0688: 1, T0023: 1, H0606: 1, H0163: 1, H0063: 1, H0264: 1, S0464: 1, S0440: 1, H0647: 1, S0344: 1,	11q13.4- q13.5	133780, 266150, 276903, 276903, 276903
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HOCMN67	1012700	482	1 - 1182	2657			H0695: 1, L0770: 1, L0638: 1, L0761: 1, L0667: 1, L0642: 1, L0643: 1, L0764: 1, L0651: 1, L0654: 1, L0783: 1, L0788: 1, L0789: 1, L0665: 1, S0052: 1, H0144: 1, H0703: 1, H0547: 1, H0593: 1, H0690: 1, H0658: 1, H0672: 1, S0378: 1, S0406: 1, H0555: 1, H0436: 1, S0027: 1, L0758: 1, H0707: 1, S0011: 1, H0542: 1 and H0423: 1.	11q13	102200, 106100, 131100, 131100, 131100, 133780, 147050, 153700, 161015, 164009, 168461, 168461, 168461, 180721,
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HAPOW35	1012711	483	92 - 619	2658	Ile-32 to Phe-42.		H0618: 1, H0318: 1, H0544: 1, H0046: 1, H0123: 1, H0081: 1, T0010: 1, H0083: 1, H0271: 1, H0553: 1, H0163: 1, S0002: 1, S0052: 1, H0702: 1, H0703: 1, S0374: 1, H0520: 1, H0547: 1, H0690: 1, H0672: 1, H0539: 1, S0380: 1, S0406: 1, H0576: 1, H0445: 1, S0434: 1, L0601: 1, L0366: 1, H0422: 1 and H0506: 1.	
HOVJM48	1013085	484	2 - 454	2659			S0418: 2, S0328: 2, H0521: 2, H0733: 1, S0132: 1, H0575: 1, H0024: 1, H0135: 1, H0038: 1, S0038: 1, S0406: 1, L0439: 1 and H0543: 1. H0688: 2, L0766: 2, H0494: 1, L0652: 1, L0731: 1 and L0759: 1.	
HBJHY84	1013213	485	1524 - 208	2660	Gln-1 to Asp-24, Phe-40 to Gln-46.		L0766: 12, L0758: 8, S0422: 7, L0794: 6, H0622: 5, H0666: 5, L0754: 5, L0592: 5, H0040: 4, L0663: 4,	

	H0520: 4, L0666: 3, L0664: 3, L0665: 3, H0547: 3, L0756: 3, L0777: 3, L0731: 3, L0759: 3, S0434: 3, H0423: 3, H0624: 2, H0583: 2, S0116: 2, H0318: 2, H0581: 2, H0428: 2, L0598: 2, L0655: 2, H0690: 2, H0518: 2, H0170: 1, H0686: 1, S0134: 1, H0657: 1, H0656: 1, H0483: 1, S0376: 1, S0360: 1, S0408: 1, H0580: 1, H0329: 1, H0486: 1, H0575: 1, H0596: 1, H0046: 1, H0267: 1, H0063: 1, H0022: 1, H0625: 1, S0440: 1, S0472: 1, H0529: 1, L0761: 1, L0646: 1, L0662: 1, L0768: 1, L0364: 1, L0649: 1, L0803: 1, L0650: 1, L0774: 1, L0651: 1, L0784: 1, L0805: 1, L0607: 1, L0659: 1, L0787: 1, L0792: 1, H0519: 1,					
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HODEY05	1013215	486	525 - 701	2661	Val-10 to Ser-18, Pro-30 to Glu-36, Glu-47 to Gly-54.				H0428: 2, S0114: 1, H0656: 1, H0263: 1, H0615: 1, H0684: 1 and L0749: 1.			
HFIA544	1013288	487	112 - 1629	2662	Arg-31 to Leu-43, Gly-63 to Trp-78, Thr-84 to Pro-89, Asp-120 to Gly-141, Glu-155 to Val-177, Leu-204 to Ser-214, Pro-230 to Lys-236, Lys-300 to Lys-307, Arg-329 to Ile-340, Pro-343 to Ala-368, Glu-375 to Pro-434, Leu-441 to Lys-446, Lys-464 to Glu-495.				14			
HHAUD68	1013349	488	212 - 538	2663	Gly-1 to Pro-6, Pro-21 to Ser-44, Pro-51 to Lys-78,				L0740: 4, H0591: 3, H0583: 2, H0013: 2, H0575: 2, H0266: 2,	6p21.3	106300, 108800, 120290,	

				Asp-80 to Ser-95, Leu-97 to Glu-103.	H0264: 2, L0805: 2, H0144: 2, S0330: 2, L0439: 2, H0445: 2, H0170: 1, H0556: 1, S0040: 1, S0218: 1, H0656: 1, H0125: 1, S0418: 1, S0376: 1, H0587: 1, H0497: 1, T0039: 1, H0069: 1, H0635: 1, H0599: 1, H0590: 1, H0318: 1, H0052: 1, H0596: 1, H0050: 1, S0003: 1, H0622: 1, H0090: 1, H0038: 1, H0634: 1, H0616: 1, H0551: 1, H0488: 1, S0016: 1, H0561: 1, S0002: 1, L0654: 1, L0518: 1, S0374: 1, S0126: 1, H0659: 1, H0660: 1, H0672: 1, H0651: 1, H0539: 1, H0521: 1, H0555: 1, L0750: 1, L0756: 1, L0757: 1, L0596: 1, L0590: 1, L0592: 1, S0026: 1, H0217: 1 and H0542: 1.		120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550, 600202, 600261, 601868, 602280, 602475	
HEEAA89	1013436	489	1.- 675	2664	Trp-4 to Ser-11, Asn-17 to Arg-23.	L0748: 6, S0422: 4, H0658: 4, L0717: 3,	15q13	103581, 146150,

				H0059: 3, L0769: 3, L0764: 3, H0352: 3, S0410: 2, H0632: 2, H0599: 2, H0046: 2, H0038: 2, H0264: 2, H0646: 2, S0002: 2, H0529: 2, L0766: 2, L0653: 2, L0659: 2, L0439: 2, L0601: 2, S0134: 1, H0583: 1, L0785: 1, S0116: 1, S0212: 1, H0255: 1, S0418: 1, S0358: 1, S0444: 1, H0675: 1, H0728: 1, H0619: 1, H0549: 1, H0392: 1, H0331: 1, T0109: 1, H0013: 1, H0635: 1, H0618: 1, S0010: 1, S0474: 1, H0052: 1, L0157: 1, H0050: 1, H0051: 1, H0375: 1, H0039: 1, H0553: 1, H0644: 1, L0456: 1, S0036: 1, H0625: 1, H0633: 1, L0637: 1, L0773: 1, L0768: 1, L0794: 1, L0522: 1, L0509: 1, L0661: 1, L0526: 1, L0809: 1,	218000, 227220, 601623, 601800, 601889, 602117
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								L0663: 1, L0664: 1, L0665: 1, S0374: 1, L0438: 1, H0547: 1, H0648: 1, S0152: 1, S0314: 1, L0745: 1, L0747: 1, L0749: 1, L0779: 1, L0777: 1, L0597: 1, L0608: 1, H0543: 1 and S0458: 1.			
HNTAK22	1013524	490	2 - 3175	2665	Lys-1 to Lys-21.			H0519: 2, S0126: 2, H0341: 1, H0125: 1, L0562: 1, S0049: 1, H0123: 1, H0687: 1, H0292: 1, H0284: 1, S0312: 1, S0250: 1, H0622: 1, S0466: 1, L0649: 1, S0037: 1 and H0677: 1.	7		
HOVBX78	1013687	491	185 - 646	2666				AR096: 62, AR104: 41, AR089: 24, AR060: 24, AR061: 20, AR033: 16, AR053: 11, AR055: 11, AR039: 6 H0644: 5, L0439: 4, L0438: 3, S0278: 2, L0483: 2, H0581: 1, H0046: 1, H0355: 1, H0266: 1, H0038: 1, H0670: 1, H0521: 1, S0027: 1, L0740: 1 and			

HVVAW74	1013740	492	1066 - 575	2667	Ala-16 to His-30, Leu-106 to Gly-112, Asp-129 to Pro-137, Thr-144 to Leu-150.	S0260: 1, L0526: 11, L0622: 8, H0670: 8, H0087: 7, S0360: 5, H0594: 5, H0188: 5, H0412: 5, S0206: 5, H0218: 4, S0418: 4, H0318: 4, H0024: 4, H0617: 4, L0770: 4, L0783: 4, S0328: 4, S0027: 4, H0265: 3, H0663: 3, T0048: 3, H0597: 3, H0123: 3, H0673: 3, S0366: 3, H0135: 3, H0616: 3, S0002: 3, L0775: 3, L0776: 3, L0518: 3, L0663: 3, H0144: 3, S0374: 3, S0126: 3, S0380: 3, S3014: 3, H0352: 3, H0624: 2, H0556: 2, H0219: 2, S0114: 2, H0657: 2, H0341: 2, S0110: 2, H0661: 2, H0305: 2, H0351: 2, H0492: 2, T0039: 2, H0052: 2, H0546: 2, H0178: 2, H0083: 2, H0688: 2, H0068: 2, H0038: 2, H0040: 2,	19pter-q12	
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HSPSF84	1013853	493	645 - 205	2668	Ser-4 to Arg-9, Ala-97 to Asp-104.	H0063: 1, H0551: 1, H0413: 1, H0102: 1, H0560: 1, S0372: 1, H0130: 1, S0144: 1, S0344: 1, S0422: 1, L0598: 1, L0507: 1, L0639: 1, L0648: 1, L0662: 1, L0767: 1, L0524: 1, L0805: 1, L0659: 1, L0542: 1, L0809: 1, L0530: 1, L0789: 1, H0691: 1, H0520: 1, H0519: 1, H0682: 1, H0684: 1, H0659: 1, H0658: 1, H0648: 1, H0672: 1, S0378: 1, S0152: 1, S0174: 1, H0576: 1, L0612: 1, H0540: 1, L0748: 1, L0740: 1, L0752: 1, L0758: 1, S0436: 1, L0485: 1, L0599: 1, L0608: 1, L0595: 1, L0362: 1, L0366: 1, S0106: 1, H0543: 1, S0446: 1, L0600: 1 and H0008: 1.	H0063: 1, H0551: 1, H0413: 1, H0102: 1, H0560: 1, S0372: 1, H0130: 1, S0144: 1, S0344: 1, S0422: 1, L0598: 1, L0507: 1, L0639: 1, L0648: 1, L0662: 1, L0767: 1, L0524: 1, L0805: 1, L0659: 1, L0542: 1, L0809: 1, L0530: 1, L0789: 1, H0691: 1, H0520: 1, H0519: 1, H0682: 1, H0684: 1, H0659: 1, H0658: 1, H0648: 1, H0672: 1, S0378: 1, S0152: 1, S0174: 1, H0576: 1, L0612: 1, H0540: 1, L0748: 1, L0740: 1, L0752: 1, L0758: 1, S0436: 1, L0485: 1, L0599: 1, L0608: 1, L0595: 1, L0362: 1, L0366: 1, S0106: 1, H0543: 1, S0446: 1, L0600: 1 and H0008: 1.	S0358: 6, H0024: 3, H0696: 3, L0581: 3, H0123: 2, L0776: 2,
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HPAMV95	1014003	494	3 - 713	2669	Lys-70 to Tyr-79, Lys-97 to Asp-102, Ser-154 to Ser-160, Asn-162 to Cys-169, Lys-212 to Ser-217, Ala-225 to Glu-230.	L0783: 2, H0658: 2, H0670: 2, H0648: 2, H0657: 1, S0116: 1, S0001: 1, H0661: 1, H0663: 1, H0450: 1, S0622: 1, H0438: 1, H0013: 1, S0280: 1, T0082: 1, H0421: 1, H0428: 1, T0067: 1, H0477: 1, S0038: 1, H0494: 1, L0762: 1, L0371: 1, L0800: 1, L0644: 1, L0773: 1, L0648: 1, L0662: 1, L0775: 1, L0375: 1, L0378: 1, L0806: 1, L0657: 1, L0666: 1, L0664: 1, H0682: 1, H0683: 1, S0378: 1, L0748: 1, L0751: 1, L0747: 1, L0753: 1, L0608: 1 and H0543: 1.	17q25	114290, 138033, 162100, 170500, 170500, 170500, 180860, 264470
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							H0032: 2, S0144: 2, L0803: 2, L0565: 2, L0438: 2, L0439: 2, S0418: 1, S0358: 1, S0278: 1, H0392: 1, H0592: 1, H0587: 1, L0021: 1, H0052: 1, H0546: 1, T0010: 1, H0271: 1, H0687: 1, S0214: 1, T0006: 1, H0031: 1, H0553: 1, L0142: 1, H0606: 1, H0087: 1, S0142: 1, S0208: 1, S0426: 1, L0761: 1, L0772: 1, L0800: 1, L0648: 1, L0662: 1, L0774: 1, L0653: 1, L0776: 1, L0782: 1, L0664: 1, H0519: 1, H0689: 1, H0690: 1, H0682: 1, H0658: 1, H0672: 1, H0555: 1, L0749: 1, L0756: 1, L0779: 1, L0755: 1, L0591: 1, S0026: 1, S0192: 1 and S0196: 1.			
HOVBX22	1014041	495	223 - 312	2670	Ile-3 to Ser-11, Arg-24 to Glu-30.	H0428: 3				
HPDRB63	1014204	496	2 - 571	2671		H0123: 2, L0764: 2,				

							L0794: 2, L0803: 2, S0356: 1, H0318: 1, H0551: 1, L0662: 1, L0804: 1, H0658: 1, H0539: 1, L0786: 1, H0543: 1 and H0423: 1.			
HNHGJ66	1014252	497	2201 - 2467	2672	Lys-1 to Ser-8, Asn-32 to Asn-41, Gln-48 to Glu-53, Arg-73 to Ser-89.		AR061: 5, AR055: 3, AR096: 3, AR089: 2, AR033: 2, AR060: 2, AR104: 2, AR053: 1 S0038: 1 and S0053: 1.			
HDPN96	1014432	498	395 - 2434	2673	Met-8 to Lys-13, Met-46 to Lys-52, Leu-89 to Lys-95, Ala-100 to Val-109, Pro-131 to Ser-160, Arg-172 to Thr-178.		H0264: 1 and H0522: 1.	1q22	104770, 107670, 110700, 145001, 146790, 159440, 159440, 159440, 186780, 191030, 191315, 600923, 601412, 601652, 602491	
HPCTH41	1014485	499	165 - 890	2674	Ala-15 to Tyr-24, His-32 to Lys-48, Ala-60 to Gly-73, Ser-82 to Phe-88,		L0731: 10, L0758: 9, L0592: 8, L0770: 7, L0439: 7, L0754: 7, L0766: 5, L0764: 4,	11q25	602782	

Phe-105 to Phe-111, Phe-124 to Thr-138, Glu-211 to Val-217, Val-219 to Gln-224.	L0662: 4, L0659: 4, L0745: 4, L0655: 3, L0666: 3, L0663: 3, S0052: 3, L0748: 3, L0747: 3, L0750: 3, H0170: 2, S0360: 2, S0046: 2, H0013: 2, L0771: 2, L0768: 2, L0794: 2, L0803: 2, L0805: 2, L0664: 2, H0144: 2, L0565: 2, H0658: 2, H0710: 2, L0740: 2, L0749: 2, L0757: 2, L0608: 2, H0556: 1, H0686: 1, H0294: 1, S0114: 1, S0282: 1, S0029: 1, H0306: 1, L0005: 1, S0356: 1, S0300: 1, H0351: 1, H0369: 1, S0222: 1, H0587: 1, T0060: 1, H0250: 1, H0635: 1, H0156: 1, S0010: 1, H0052: 1, H0263: 1, H0596: 1, L0738: 1, H0545: 1, H0103: 1, S0051: 1, S0003: 1, S0214: 1, H0328: 1, L0143: 1, H0616: 1, H0412: 1.
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HPCTY73	1014646	500	2 - 2299	2675	Cys-5 to Gly-10, Ala-22 to Pro-31, Lys-107 to Pro-114, Ala-149 to Arg-157, Ile-294 to Leu-299, Ser-356 to Pro-363, Pro-384 to Phe-392.	L0564: 1, S0440: 1, UNKWN: 1, L0598: 1, H0529: 1, L0763: 1, L0371: 1, L0769: 1, L0638: 1, L0761: 1, L0646: 1, L0773: 1, L0648: 1, L0521: 1, L0649: 1, L0389: 1, L0806: 1, L0776: 1, L0657: 1, L0656: 1, L0783: 1, L0382: 1, L0529: 1, L0791: 1, S0374: 1, L0438: 1, H0547: 1, H0659: 1, H0648: 1, S0378: 1, H0522: 1, H0704: 1, S0406: 1, H0436: 1, L0742: 1, L0744: 1, L0756: 1, L0786: 1, L0752: 1, H0444: 1, L0589: 1, L0593: 1, L0362: 1, H0542: 1, S0446: 1 and H0352: 1.	7p15	138079, 138079, 139191, 142959, 153880, 180104, 600994,
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Ala-474 to Gly-481, Ala-489 to Tyr-494, Pro-512 to Lys-517, Arg-623 to Thr-630, Lys-673 to Ser-678, Thr-703 to His-709, Arg-714 to Arg-720, Gly-755 to Glu-766.	H0543: 6, S0040: 5, S0003: 5, S0022: 5, S0214: 5, S0144: 5, S0037: 5, L0747: 5, L0777: 5, L0362: 5, S0026: 5, T0039: 4, H0318: 4, H0266: 4, H0560: 4, L0590: 4, L0599: 4, L0594: 4, S0011: 4, H0265: 3, H0657: 3, S0116: 3, H0663: 3, S0360: 3, S0045: 3, H0497: 3, H0559: 3, S0010: 3, H0052: 3, L0483: 3, H0090: 3, H0494: 3, L0766: 3, L0659: 3, L0666: 3, H0435: 3, L0602: 3, S3012: 3, L0740: 3, L0750: 3, L0731: 3, L0759: 3, H0542: 3, S0212: 2, H0431: 2, H0024: 2, H0014: 2, H0083: 2, H0428: 2, H0628: 2, H0617: 2, H0634: 2, H0551: 2, L0065: 2, H0509: 2, S0150: 2, S0210: 2, H0529: 2, L0770: 2, L0768: 2.	601649
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HCOPQ33	1014730	501	3 - 380	2676	Ser-3 to Gln-34, Pro-43 to Ser-48, Pro-51 to Tyr-69, Asn-87 to Pro-92, Pro-107 to Val-119.	H0008: 1, S0360: 8, S0356: 6, L0769: 6, L0598: 4, L0666: 4, L0750: 4, L0779: 4, L0758: 4, H0013: 3, L0803: 3, L0517: 3, L0809: 3, S0222: 2, H0592: 2, L0471: 2, H0169: 2, L0761: 2, L0764: 2, L0771: 2, L0776: 2, L0783: 2, L0664: 2, H0144: 2, H0670: 2, S0380: 2, L0748: 2, L0747: 2, L0777: 2, S0026: 2, H0624: 1, H0171: 1, S0040: 1, S6024: 1, L0002: 1, H0663: 1, L0005: 1, S6026: 1, H0351: 1, H0455: 1, H0600: 1, T0040: 1, H0244: 1, S0010: 1, H0052: 1, L0738: 1, S0316: 1, H0328: 1, H0615: 1, H0388: 1, H0135: 1, T0067: 1, H0059: 1, H0560: 1, H0647: 1, L0763: 1, L0646: 1, L0773: 1, L0662: 1,		
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HOEBR36	1014754	502	396 - 1061	2677			T0004: 2, L0372: 1, L0521: 1, L0806: 1, S0126: 1, H0435: 1 and L0731: 1.			
HLWDZ66	1014849	503	3 - 695	2678	Asp-24 to Val-36, Lys-38 to Glu-49, Pro-80 to Ser-90, Thr-131 to Gly-138.		AR096: 5, AR033: 4, AR089: 3, AR053: 3, AR052: 3, AR060: 3, AR039: 2, AR104: 1, AR055: 1, AR061: 1 L0803: 6, L0759: 6, L0666: 4, L0805: 3, L0756: 3, L0362: 3, S0442: 2, L0646: 2, L0794: 2, L0766: 2, L0659: 2, H0144: 2, L0438: 2, H0520: 2, L0779: 2, L0596: 2, H0423: 2, L0600: 2, H0170: 1, S0114: 1, H0650: 1, S0358: 1,			

HOEER36	1014869	504	3051 - 2260	2679	Ala-32 to Ala-38, Pro-55 to Glu-72, Ala-83 to Glu-109, Glu-114 to Leu-121, Thr-135 to Lys-143, Leu-149 to Lys-166, Val-173 to Ser-178, Lys-185 to Gln-195, Pro-208 to Thr-214, Gln-243 to Arg-253, Lys-259 to Lys-264.	S0444: 1, S0360: 1, H0329: 1, S0222: 1, H0497: 1, H0036: 1, S0474: 1, H0051: 1, H0687: 1, S0214: 1, H0615: 1, H0428: 1, H0622: 1, H0553: 1, H0598: 1, H0040: 1, H0634: 1, L0060: 1, T0041: 1, S0422: 1, L0773: 1, L0774: 1, L0657: 1, L0809: 1, L0789: 1, L0664: 1, S0126: 1, H0689: 1, H0435: 1, H0670: 1, L0748: 1, L0439: 1, L0731: 1, S0031: 1 and S0434: 1.	6p23	125264, 600511, 601556
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L0783: 3, L0663: 3, H0658: 3, L0743: 3, L0744: 3, L0751: 3, L0750: 3, L0731: 3, S0026: 3, S0134: 2, H0657: 2, S0010: 2, H0544: 2, S0051: 2, H0266: 2, S0003: 2, H0622: 2, L0763: 2, L0768: 2, L0804: 2, L0774: 2, L0775: 2, L0655: 2, L0545: 2, L0665: 2, H0547: 2, H0689: 2, S0380: 2, S3012: 2, S3014: 2, L0756: 2, H0595: 2, L0588: 2, L0605: 2, L0362: 2, L0601: 2, S0424: 2, H0624: 1, H0171: 1, H0556: 1, S0212: 1, H0664: 1, L0005: 1, S0354: 1, S0360: 1, S0410: 1, H0580: 1, S0046: 1, H0393: 1, H0411: 1, H0549: 1, H0370: 1, H0559: 1, H0427: 1, H0318: 1, S0474: 1, H0085: 1, T0115: 1, H0327: 1, H0545: 1,
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HE8OX75	1015010	505	18 - 170	2680	Ser-1 to Tyr-6.	H0046: 1, N0006: 1, H0123: 1, L0471: 1, S0388: 1, S0214: 1, H0252: 1, L0483: 1, H0553: 1, S0036: 1, H0591: 1, H0038: 1, H0040: 1, H0616: 1, T0067: 1, H0413: 1, S0386: 1, T0042: 1, H0560: 1, L0598: 1, H0529: 1, L0520: 1, L0762: 1, L0772: 1, L0646: 1, L0771: 1, L0794: 1, L0375: 1, L0805: 1, L0657: 1, L0367: 1, L0787: 1, L0666: 1, H0144: 1, S0126: 1, H0648: 1, H0672: 1, S0328: 1, H0521: 1, S0037: 1, L0754: 1, L0757: 1, H0444: 1, L0591: 1, H0667: 1, H0216: 1 and H0543: 1.		
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HVASI06	1015024	506	67 - 1365	2681				H0156: 1, H0085: 1, L0351: 1, H0509: 1, L0769: 1, L0776: 1, L0657: 1, L0809: 1, L0666: 1, H0684: 1, L0439: 1, L0779: 1, L0777: 1, L0753: 1, L0757: 1 and H0444: 1.  L0809: 8, L0666: 8, S0436: 8, H0038: 6, S0330: 6, S0442: 5, S0440: 5, L0662: 5, L0794: 5, L0663: 5, H0040: 4, L0776: 4, L0664: 4, L0740: 4, L0754: 4, L0601: 4, S0358: 3, S0376: 3, S0444: 3, L0157: 3, L0763: 3, L0770: 3, L0803: 3, L0653: 3, L0659: 3, L0665: 3, H0658: 3, H0672: 3, H0341: 2, H0125: 2, S0408: 2, H0587: 2, H0360: 2, H0318: 2, H0263: 2, H0231: 2, H0328: 2, H0615: 2, T0023: 2, H0561: 2, L0372: 2, L0800: 2, L0768: 2, L0766: 2,		
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L0522: 2, L0806: 2, S0374: 2, H0547: 2, H0519: 2, S0126: 2, H0659: 2, L0745: 2, L0750: 2, L0752: 2, S0434: 2, H0506: 2, H0265: 1, H0556: 1, S0040: 1, H0717: 1, H0294: 1, H0583: 1, H0657: 1, L0785: 1, H0669: 1, H0671: 1, H0661: 1, H0663: 1, H0664: 1, S0420: 1, L0005: 1, S0356: 1, S0132: 1, H0619: 1, H0351: 1, S0222: 1, S0220: 1, H0431: 1, T0039: 1, H0618: 1, T0110: 1, L0738: 1, H0570: 1, H0569: 1, L0471: 1, H0292: 1, H0039: 1, H0034: 1, H0031: 1, H0553: 1, L0055: 1, H0166: 1, H0169: 1, H0674: 1, H0068: 1, H0598: 1, S0036: 1, H0163: 1, H0591: 1, H0359: 1, S0450: 1, H0647: 1, H0646: 1, S0344: 1,					
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HDPXP07	1015059	507	3 - 242	2682	Lys-1 to Trp-11, Asn-13 to Lys-30,	L0766: 7, L0769: 4, L0747: 4, L0758: 4,			

				Leu-33 to Thr-53.	H0251: 3, L0805: 3, S0007: 2, S0414: 2, H0644: 2, H0672: 2, S0026: 2, H0686: 1, H0713: 1, H0663: 1, S0376: 1, S0360: 1, S0046: 1, L0717: 1, H0574: 1, H0486: 1, H0427: 1, H0596: 1, L0040: 1, L0738: 1, H0046: 1, H0571: 1, L0471: 1, S0051: 1, H0510: 1, S0003: 1, S0214: 1, H0674: 1, H0708: 1, H0038: 1, H0412: 1, H0646: 1, S0002: 1, L0773: 1, L0662: 1, L0767: 1, L0794: 1, L0804: 1, L0806: 1, L0776: 1, L0606: 1, L0783: 1, L0792: 1, L0665: 1, H0660: 1, H0648: 1, H0521: 1, H0555: 1, L0743: 1, L0756: 1, L0777: 1, L0755: 1, L0759: 1, S0031: 1, L0362: 1, H0542: 1 and H0543: 1.			
HE2KH02	1015093	508	1 - 615	2683	L0777: 11, L0438: 7,			

	L0759: 6, L0748: 5, H0052: 4, L0779: 4, H0013: 3, L0598: 3, L0770: 3, H0624: 2, H0717: 2, S0442: 2, S0354: 2, L0149: 2, S0046: 2, S0010: 2, H0050: 2, H0328: 2, UNKWN: 2, L0803: 2, L0776: 2, L0659: 2, H0670: 2, H0660: 2, L0439: 2, L0747: 2, L0749: 2, L0731: 2, L0594: 2, H0542: 2, H0170: 1, H0171: 1, L0785: 1, H0384: 1, S0358: 1, H0549: 1, S0222: 1, H0632: 1, S0414: 1, S0474: 1, S0049: 1, H0194: 1, H0327: 1, H0046: 1, H0051: 1, S0051: 1, T0010: 1, H0083: 1, S0003: 1, H0644: 1, H0628: 1, H0316: 1, S0036: 1, H0040: 1, H0413: 1, H0100: 1, S0150: 1, L0769: 1, L0373: 1, L0765: 1, L0662: 1, L0794: 1,				
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							L0649: 1, L0804: 1, L0805: 1, L0789: 1, L0666: 1, L0663: 1, L0665: 1, H0144: 1, S0374: 1, H0520: 1, H0658: 1, H0666: 1, H0672: 1, S0380: 1, S0406: 1, L0754: 1, L0756: 1, L0758: 1, S0031: 1 and L0589: 1.			
HSPSI60	1015133	509	2230 - 1901	2684	Gln-20 to Glu-27, Ser-43 to Ser-49, Ser-89 to Ala-95.		L0766: 5, L0438: 3, L0777: 3, H0090: 2, L0439: 2, L0731: 2, L0759: 2, S0114: 1, H0318: 1, L0471: 1, H0687: 1, H0509: 1, H0695: 1, L0803: 1, L0774: 1, L0775: 1, L0523: 1, L0806: 1, L0776: 1, L0809: 1, L0666: 1, H0690: 1, H0683: 1, H0659: 1, H0670: 1, L0749: 1 and L0779: 1.			
HOCOC26	1015143	510	97 - 693	2685	Pro-1 to Ser-9, Glu-48 to Gly-54, Gly-66 to Leu-71, Pro-78 to Glu-84, Ala-108 to Gln-116, Ile-167 to Asp-172,		L0748: 11, L0750: 5, L0740: 4, L0756: 4, L0758: 4, L0769: 3, L0766: 3, L0776: 3, L0779: 3, H0135: 2, L0763: 2, L0770: 2,			

					Thr-179 to His-185.	L0796: 2, L0768: 2, L0774: 2, L0783: 2, L0809: 2, L0438: 2, H0519: 2, H0672: 2, L0751: 2, L0747: 2, L0777: 2, L0755: 2, L0757: 2, H0341: 1, S0356: 1, S0442: 1, S0444: 1, S0360: 1, S0046: 1, H0431: 1, T0040: 1, H0599: 1, H0327: 1, H0046: 1, H0024: 1, H0014: 1, H0510: 1, H0688: 1, H0708: 1, H0413: 1, H0131: 1, S0150: 1, S0426: 1, L0373: 1, L0646: 1, L0771: 1, L0773: 1, L0650: 1, L0666: 1, S0374: 1, H0684: 1, H0660: 1, S0380: 1, S0406: 1, L0749: 1, L0752: 1, L0753: 1, L0588: 1, L0599: 1, H0543: 1, H0423: 1 and H0422: 1.		
HHEDC05	1015204	511	1035 - 7	2686	Pro-43 to Cys-48, Thr-75 to Gln-82.	H0695: 124, H0542: 48, H0730: 32, H0688: 27, H0735: 25, H0684: 24, H0728: 23, H0687:		



HODES86	1015304	512	89 - 421	2687			23, H0744: 19, H0703: 19, H0580: 18, H0717: 17, H0685: 15, H0729: 15, H0722: 15, H0740: 13, H0733: 11, H0521: 9, H0713: 8, H0543: 8, H0494: 7, H0689: 7, H0716: 6, H0741: 6, H0696: 6, H0734: 5, H0739: 4, H0545: 4, H0699: 4, H0725: 4, H0686: 3, H0592: 3, H0587: 3, H0581: 3, H0743: 3, H0726: 3, H0690: 3, H0683: 3, H0732: 3, H0712: 3, H0742: 2, H0544: 2, H0708: 2, H0488: 2, H0724: 2, H0710: 2, H0709: 2, H0555: 2, H0171: 1, H0738: 1, S0282: 1, H0600: 1, H0586: 1, H0318: 1, H0617: 1, S0036: 1, H0561: 1, S0422: 1, S0053: 1, S0216: 1, H0723: 1, H0522: 1, S0146: 1, H0727: 1, S0260: 1 and S0436: 1.	L0753: 3, H0615: 1
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HOPJU57	1015324	513	943 - 1164	2688	Gly-1 to Tyr-6, Lys-10 to Gly-19, Ser-46 to Lys-59.	and H0683: 1. H0585: 21, L0742: 12, L0747: 9, S0358: 8, H0052: 8, S0126: 8, H0141: 7, H0620: 7, L0748: 7, H0009: 6, H0624: 4, S0408: 4, H0427: 4, H0081: 4, S0051: 4, H0660: 4, L0750: 4, S0444: 3, H0393: 3, H0599: 3, H0618: 3, L0471: 3, H0083: 3, H0617: 3, H0708: 3, H0413: 3, H0494: 3, H0672: 3, L0740: 3, L0751: 3, L0755: 3, H0171: 2, H0294: 2, S0046: 2, H0455: 2, H0333: 2, H0156: 2, H0002: 2, H0097: 2, H0706: 2, S0049: 2, H0024: 2, H0373: 2, H0356: 2, S0364: 2, S0366: 2, H0135: 2, H0412: 2, S0440: 2, L0640: 2, L0766: 2, L0532: 2, L0754: 2, L0757: 2, S0031: 2, L0604: 2, H0506: 2, H0161: 1,		
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				H0717: 1, H0716: 1, H0583: 1, H0657: 1, S0282: 1, H0664: 1, H0402: 1, H0638: 1, S0354: 1, S0376: 1, S0360: 1, H0208: 1, S0476: 1, H0411: 1, S6022: 1, S6016: 1, H0392: 1, H0438: 1, H0600: 1, H0586: 1, H0331: 1, H0574: 1, T0109: 1, H0013: 1, H0253: 1, H0390: 1, H0581: 1, H0173: 1, H0194: 1, H0204: 1, H0231: 1, H0327: 1, H0530: 1, H0544: 1, H0123: 1, H0051: 1, H0099: 1, S0340: 1, H0428: 1, H0424: 1, H0213: 1, L0142: 1, H0628: 1, H0032: 1, H0634: 1, S0038: 1, H0100: 1, T0041: 1, T0042: 1, S0438: 1, H0641: 1, H0652: 1, S0144: 1, L0769: 1, L0638: 1, L0771: 1, L0662: 1, L0768: 1, L0653: 1, L0776: 1,			
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HVCAC71	1015343	514	2 - 1204	2689	Pro-13 to Pro-23.	L0807: 1, H0593: 1, H0682: 1, H0684: 1, H0658: 1, H0670: 1, S0330: 1, H0522: 1, H0576: 1, L0612: 1, S3014: 1, S0027: 1, L0744: 1, L0745: 1, L0731: 1, H0445: 1 and S0434: 1.	4q21-q25	104500, 125490, 137600, 147790, 173910, 189800, 217030, 248510, 252500, 252500, 600919, 601542
						H0494: 6, H0046: 5, S0028: 5, H0519: 4, H0713: 3, H0547: 3, H0458: 2, H0574: 2, H0013: 2, H0551: 2, T0042: 2, L0438: 2, H0521: 2, S3014: 2, H0423: 2, H0506: 2, H0170: 1, H0171: 1, H0716: 1, S0134: 1, H0650: 1, H0656: 1, H0341: 1, S0212: 1, S0282: 1, H0449: 1, H0638: 1, S0418: 1, S0354: 1, S0358: 1, S0045: 1, S0132: 1, S0476: 1, S0280: 1, H0599: 1, H0575: 1, T0082: 1, H0036: 1, S0010: 1, H0581: 1, H0052: 1, H0251: 1.		

HSXCO55	1015360	515	6 - 1076	2690	Val-9 to Gly-18, Pro-21 to Gly-27, Gly-81 to Trp-91, Lys-120 to Gly-126, Ile-166 to Pro-172, Val-185 to Ala-192,	H0596: 1, H0530: 1, H0544: 1, H0081: 1, H0050: 1, H0014: 1, H0373: 1, S0003: 1, S0022: 1, L0194: 1, H0213: 1, H0644: 1, S0364: 1, S0366: 1, H0040: 1, H0634: 1, T0067: 1, H0268: 1, H0623: 1, L0475: 1, H0561: 1, S0150: 1, H0646: 1, L0766: 1, H0702: 1, S0374: 1, H0520: 1, H0683: 1, H0435: 1, H0660: 1, H0666: 1, H0672: 1, S0380: 1, H0696: 1, S0027: 1, S0032: 1, L0740: 1, L0747: 1, S0434: 1, S0436: 1, L0597: 1, H0667: 1, S0194: 1, H0542: 1, H0543: 1, S0424: 1 and H0293: 1.	L0749: 14, L0439: 8, L0438: 6, L0748: 4, L0747: 4, L0779: 4, L0769: 3, S0442: 2, S0038: 2, L0764: 2, L0662: 2, L0766: 2,		
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					Asp-207 to Ser-212, Ser-241 to Lys-248, Trp-250 to Tyr-258, Gln-287 to Asn-292.	L0659: 2, L0809: 2, L0666: 2, H0144: 2, H0658: 2, L0754: 2, L0750: 2, L0756: 2, L0777: 2, L0780: 2, H0624: 1, H0170: 1, H0171: 1, H0556: 1, S0402: 1, S0282: 1, H0645: 1, L0717: 1, H0586: 1, L0586: 1, H0427: 1, S0010: 1, H0046: 1, H0457: 1, H0050: 1, L0471: 1, S0051: 1, T0010: 1, S6028: 1, H0688: 1, H0031: 1, H0169: 1, S0036: 1, H0135: 1, H0494: 1, H0560: 1, S0438: 1, H0207: 1, H0633: 1, H0647: 1, S0142: 1, S0422: 1, L0803: 1, L0804: 1, L0776: 1, L0655: 1, S0148: 1, H0547: 1, S0126: 1, H0683: 1, H0670: 1, H0672: 1, H0539: 1, L0744: 1, L0757: 1, L0758: 1, L0759: 1, L0593: 1, H0543: 1 and H0423: 1.		
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HLWDB78	1015430	516	57 - 629	2691	Lys-90 to Arg-96.	L0766: 4, L0748: 4, S0037: 2, L0749: 2, S0360: 1, H0571: 1, S0003: 1, H0553: 1, H0551: 1, S0142: 1, S0002: 1, L0794: 1, L0804: 1, H0519: 1, H0659: 1, H0660: 1, L0754: 1 and H0136: 1.		
HPCQU04	1015563	517	216 - 1232	2692		H0585: 26, H0141: 12, 4q21 H0623: 6, L0766: 6, H0013: 5, H0318: 5, H0556: 4, H0657: 4, H0457: 4, L0471: 4, L0776: 4, H0659: 4, S0360: 3, H0599: 3, S0010: 3, S0003: 3, H0634: 3, T0067: 3, H0538: 3, L0598: 3, L0770: 3, L0764: 3, H0144: 3, L0751: 3, L0747: 3, L0757: 3, L0758: 3, H0445: 3, H0542: 3, T0002: 2, S0418: 2, S0376: 2, S0132: 2, S0222: 2, H0497: 2, H0559: 2, H0620: 2, H0083: 2, H0428: 2, H0124: 2, H0068: 2, H0090: 2,	104500, 125490, 147790, 173910, 252500, 252500	

			H0412: 2, H0494: 2, H0561: 2, L0769: 2, L0372: 2, L0775: 2, L0375: 2, L0655: 2, L0517: 2, L0526: 2, H0520: 2, H0519: 2, S0126: 2, S0330: 2, H0521: 2, S0206: 2, L0743: 2, L0745: 2, L0752: 2, L0593: 2, L0595: 2, S0026: 2, H0543: 2, H0423: 2, H0265: 1, H0686: 1, S0342: 1, T0049: 1, S0134: 1, H0650: 1, S0116: 1, H0341: 1, H0661: 1, S0420: 1, S0356: 1, L0717: 1, S0278: 1, H0549: 1, H0550: 1, H0441: 1, H0442: 1, S0005: 1, L0623: 1, H0486: 1, T0114: 1, S0280: 1, H0575: 1, H0581: 1, H0052: 1, H0046: 1, H0123: 1, H0050: 1, H0012: 1, H0015: 1, H0239: 1, H0375: 1, S0022: 1, H0615: 1, H0030: 1, H0644: 1,		
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HDPAT52	1015574	518	1387 - 335	2693	Pro-11 to Gly-18, Glu-24 to Cys-32, Glu-34 to Met-47, Ala-55 to Glu-60, Ile-75 to Gln-81, Ser-132 to Thr-139.	H0628: 1, H0617: 1, H0674: 1, H0316: 1, S0036: 1, H0591: 1, H0040: 1, H0380: 1, H0100: 1, S0372: 1, H0509: 1, H0132: 1, S0142: 1, S0210: 1, S0002: 1, H0529: 1, L0369: 1, L0520: 1, L0763: 1, L0761: 1, L0667: 1, L0386: 1, L0657: 1, L0789: 1, L0666: 1, H0697: 1, T0068: 1, H0547: 1, H0593: 1, H0670: 1, H0539: 1, H0555: 1, H0436: 1, S3014: 1, S0028: 1, L0754: 1, L0750: 1, L0756: 1, L0755: 1, L0588: 1, L0599: 1, L0362: 1, L0361: 1, L0601: 1, S0011: 1, H0665: 1, S0424: 1 and L0600: 1.		
						L0599: 2, H0253: 1, H0581: 1, H0263: 1, H0200: 1, H0040: 1, H0623: 1, H0280: 1, H0593: 1, H0521: 1 and H0555: 1.		

HAOSL81	1015620	519	28 - 747	2694	<p>Gln-167 to Gln-180, Leu-183 to Phe-195, Gln-211 to Gln-223, Gln-232 to Leu-244, Gln-253 to Ala-269, Pro-274 to Leu-292, Thr-302 to Thr-330.</p> <p>Asp-1 to Lys-6, Gln-29 to Gly-35, Pro-39 to Arg-49, Pro-51 to Trp-58, Ser-78 to Gly-83, Ser-179 to His-194.</p>	<p>H0124: 11, L0751: 5, L0747: 4, H0295: 3, H0620: 3, L0794: 3, L0741: 3, L0758: 3, H0686: 2, H0549: 2, H0617: 2, L0768: 2, L0766: 2, L0774: 2, L0745: 2, L0731: 2, H0656: 1, S0420: 1, S0444: 1, S0360: 1, S0408: 1, S0222: 1, H0486: 1, H0013: 1, L0021: 1, H0052: 1, H0327: 1, H0009: 1, T0010: 1, H0033: 1, H0604: 1, H0031: 1, H0068: 1, H0038: 1, H0100: 1, H0509: 1, L0769: 1, L0761: 1, L0804: 1, L0775: 1, L0636: 1, L0809: 1, L0792: 1, L4501: 1, L0665: 1, L0438: 1.</p>		
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HMWTU46	1015814	520	1 - 1152	2695	Gly-4 to Gln-11, Val-87 to Asn-97, Gly-168 to Leu-178, Asp-194 to Phe-200, Phe-205 to Arg-210, Gln-292 to Gly-306, Gly-328 to Ser-342, Gly-349 to Asp-358, His-365 to Asp-379.	H0684: 1, H0660: 1, H0539: 1, H0555: 1, L0742: 1, L0786: 1, H0668: 1 and S0424: 1.	20q11.21- q11.23	
HSXCQ19	1015994	521	3 - 1100	2696	Gly-5 to Ala-25, Pro-28 to Leu-43, Pro-45 to Glu-57, Pro-64 to Trp-70, Gly-76 to Ala-90, Gly-99 to Gly-106.	L0809: 7, L0758: 7, S0007: 4, L0662: 4, L0794: 4, L0665: 4, L0439: 4, L0754: 4, H0333: 3, L0769: 3, L0761: 3, L0803: 3, H0395: 2, S0222: 2, H0124: 2, S0036: 2, L0535: 2, L0666: 2, H0658: 2, L0751: 2, L0747: 2, L0485: 2, H0716: 1, H0295: 1, H0402: 1, S0418: 1, S0442: 1, H0619: 1, H0586: 1, L0623: 1, H0486: 1, S0280: 1, L0021: 1, H0618: 1,		

HNOAG06	1016272	522	316 - 546	2697	Pro-8 to Asn-22, Thr-31 to Ser-36.	H0318: 1, H0052: 1, H0251: 1, H0123: 1, H0050: 1, H0012: 1, S0051: 1, H0179: 1, H0615: 1, T0006: 1, H0673: 1, H0135: 1, H0087: 1, H0264: 1, H0100: 1, L0763: 1, L5565: 1, L0667: 1, L0772: 1, L0644: 1, L0768: 1, L0775: 1, L0805: 1, L0655: 1, L0659: 1, L0526: 1, L0663: 1, S0052: 1, H0682: 1, H0660: 1, L0602: 1, L0743: 1, L0750: 1, L0756: 1, L0779: 1, L0777: 1, L0592: 1, H0136: 1 and S0424: 1.	1q21.1	104770, 107670, 110700, 145001, 146790, 191315, 601412, 601652, 601863, 602491
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						H0359: 1, L0770: 1, L0521: 1, L0768: 1, L0803: 1, L0804: 1, L0659: 1, L0809: 1, L0789: 1, H0648: 1, H0651: 1, L0779: 1, L0780: 1 and L0752: 1.			
HE2KN09	1016351	523	3 - 656	2698		AR052: 27, AR033: 27, AR039: 25, AR053: 24, AR055: 19, AR089: 19, AR096: 19, AR104: 17, AR060: 14, AR061: 12 L0776: 4, L0783: 4, H0624: 3, H0559: 3, H0620: 3, H0615: 3, H0100: 3, L0769: 3, L0766: 3, L0755: 3, H0619: 2, H0081: 2, H0604: 2, L0775: 2, L0375: 2, L0659: 2, L0809: 2, H0670: 2, H0672: 2, H0539: 2, L0777: 2, L0759: 2, T0002: 1, H0295: 1, T0049: 1, H0657: 1, H0381: 1, H0661: 1, H0662: 1, S0442: 1, S0376: 1, S0360: 1, S0408: 1, H0550: 1,			

							S0222: 1, H0486: 1, H0156: 1, H0599: 1, H0052: 1, H0597: 1, H0545: 1, H0565: 1, H0563: 1, H0012: 1, H0373: 1, H0266: 1, H0292: 1, H0284: 1, T0006: 1, H0181: 1, H0617: 1, H0264: 1, H0413: 1, H0059: 1, H0494: 1, H0509: 1, H0529: 1, L0763: 1, L0770: 1, L0796: 1, L0639: 1, L0646: 1, L0643: 1, L0645: 1, L0774: 1, L0806: 1, L0519: 1, L0665: 1, H0144: 1, L0438: 1, L0352: 1, H0520: 1, H0547: 1, S0126: 1, H0658: 1, S0378: 1, S0380: 1, H0521: 1, H0696: 1, H0576: 1, L0439: 1, L0747: 1, L0750: 1, L0752: 1, L0753: 1, L0731: 1 and H0543: 1.		
HISDH58	1016740	524	1678 - 248	2699	Asp-55 to Cys-73, Pro-75 to Tyr-85.		H0620: 1, H0130: 1 and H0539: 1.		
HSPSB62	1016768	525	148 - 990	2700	Leu-36 to Glu-41,		S0276: 7, H0543: 6,		

					Asp-48 to Asp-55, Ser-104 to Glu-199, Pro-202 to Trp-233, Gly-236 to Ala-247, Phe-256 to Ser-263, Glu-273 to Asp-281.	S0358: 3, H0046: 3, H0424: 3, L0748: 3, H0265: 2, H0556: 2, H0661: 2, S0420: 2, H0052: 2, H0135: 2, H0090: 2, H0433: 2, L0752: 2, L0758: 2, H0422: 2, H0657: 1, H0484: 1, H0483: 1, H0638: 1, S0360: 1, S0132: 1, H0645: 1, H0550: 1, H0391: 1, T0039: 1, H0250: 1, S0010: 1, H0009: 1, H0123: 1, H0081: 1, S0051: 1, H0428: 1, H0040: 1, S0038: 1, S0144: 1, H0547: 1, H0593: 1, H0683: 1, H0670: 1, H0518: 1, H0134: 1, S0037: 1, S3014: 1, S0027: 1, S0032: 1, L0744: 1, L0740: 1, L0746: 1, L0731: 1, H0445: 1, L0596: 1, S0011: 1 and H0542: 1.		
HE2FR37	1016939	526	109 - 729	2701	Gly-1 to Met-15, Met-60 to Gln-67, Val-76 to Gly-82,	AR060: 2, AR089: 2, AR055: 1, AR061: 1, AR096: 1, AR104: 0,		

					Leu-117 to Arg-123.	AR053: 0, AR033: 0, AR039: 0 H0328: 2, H0124: 2, L0766: 2, H0171: 1, L0005: 1, S0360: 1, H0329: 1, H0156: 1, H0615: 1, H0477: 1, S0440: 1, L0598: 1, H0547: 1, S0126: 1, S0168: 1 and H0595: 1.			
HBJHU33	1017051	527	1 - 618	2702	Met-34 to Gly-50, Asp-69 to Trp-90, Asp-99 to Lys-107, Val-164 to Thr-170.				
HCOQZ88	1017227	528	3 - 1196	2703	His-1 to Arg-12.	L0748: 38, L0747: 30, L0759: 7, S0360: 5, L0664: 5, L0779: 5, H0486: 4, S0010: 4, L0758: 4, S0222: 3, L0455: 3, S0386: 3, L0764: 3, L0771: 3, L0775: 3, L0438: 3, S0028: 3, L0749: 3, H0580: 2, H0208: 2, H0013: 2, S0280: 2, H0575: 2, H0251: 2, H0024: 2, S0214: 2, H0428: 2, H0622: 2, H0031: 2, H0644: 2, L0646: 2, L0800: 2,	6q23	107470, 107470, 107470, 121014, 142470, 156225, 164200, 164200, 207800, 601316, 601410, 601757, 602067	



L0773: 2, L0662: 2, L0794: 2, L0804: 2, H0521: 2, L0752: 2, S0026: 2, H0583: 1, H0459: 1, S0418: 1, S0356: 1, H0675: 1, S0045: 1, H0619: 1, H0441: 1, T0039: 1, T0109: 1, H0581: 1, H0263: 1, H0596: 1, H0232: 1, H0327: 1, L0471: 1, H0057: 1, H0375: 1, H0266: 1, S0003: 1, H0688: 1, H0553: 1, H0376: 1, H0163: 1, H0090: 1, H0591: 1, H0616: 1, S0370: 1, S0382: 1, H0529: 1, L0770: 1, L0769: 1, L0638: 1, L0761: 1, L0772: 1, L0642: 1, L0767: 1, L0768: 1, L0364: 1, L0766: 1, L0606: 1, L0659: 1, L0809: 1, L0663: 1, H0144: 1, L0565: 1, L0352: 1, S0126: 1, H0682: 1, H0659: 1, H0670: 1, H0672: 1, L0602: 1,					
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							H0518: 1, S0146: 1, S3014: 1, L0439: 1, L0745: 1, L0750: 1, L0777: 1, L0755: 1, L0731: 1, H0595: 1, L0596: 1, H0543: 1 and H0352: 1.			
HNTSV21	1017374	529	673 - 1008	2704	Asn-41 to Lys-46, Pro-73 to Lys-92.		L0599: 2, H0265: 1, S0114: 1, S0116: 1, H0486: 1, H0031: 1, H0090: 1, H0616: 1, H0547: 1, H0670: 1, L0743: 1, L0744: 1, L0747: 1 and L0592: 1.	1		
HNORH33	1017461	530	255 - 2063	2705			S0358: 11, L0777: 9, H0046: 8, L0439: 6, L0759: 6, L0438: 5, L0662: 4, L0794: 4, L0766: 4, S0114: 3, L0803: 3, L0789: 3, H0144: 3, S0126: 3, L0748: 3, S0011: 3, S0196: 3, H0686: 2, H0250: 2, H0024: 2, H0031: 2, H0628: 2, H0056: 2, L0667: 2, L0805: 2, L0659: 2, L0809: 2, L0663: 2, L0665: 2, S0328: 2, H0521: 2, S3014: 2,			

HUF35	1017565	531	162 - 2159	2706				S0402: 1, S0212: 1, S0348: 1, S0356: 1, S0442: 1, S0360: 1, S0222: 1, H0431: 1, H0486: 1, H0599: 1, H0581: 1, L0471: 1, L0163: 1, H0201: 1, S0051: 1, H0375: 1, S0214: 1, H0553: 1, L0142: 1, L0143: 1, H0032: 1, L0455: 1, H0090: 1, H0591: 1, H0063: 1, H0551: 1, H0623: 1, T0041: 1, T0042: 1, H0561: 1, H0714: 1, H0509: 1, H0633: 1, L0637: 1, L0761: 1, L0800: 1, L0768: 1, L0650: 1, L0378: 1, L0655: 1, L0666: 1, H0691: 1, H0435: 1, H0658: 1, H0651: 1, L0744: 1, L0750: 1, L0757: 1, L0758: 1, L0591: 1, L0599: 1, L0362: 1, S0242: 1, H0542: 1, H0543: 1 and H0422: 1.	12q24.2- q24.3	100650, 100650,
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HPCG39	1017694	532	1 - 132	2707	Ser-19 to Arg-24.	L0650: 1, L0774: 1, L0651: 1, L0654: 1, L0513: 1, L0558: 1, L0782: 1, L0783: 1, L0384: 1, L0383: 1, L0382: 1, L0528: 1, L0647: 1, L0792: 1, H0144: 1, S0296: 1, T0068: 1, S0148: 1, L0438: 1, L0352: 1, H0689: 1, H0690: 1, H0682: 1, H0684: 1, H0666: 1, H0651: 1, S0380: 1, L0602: 1, H0710: 1, H0522: 1, H0694: 1, S0404: 1, H0478: 1, H0631: 1, S0028: 1, L0742: 1, L0749: 1, L0750: 1, L0779: 1, L0755: 1, L0758: 1, L0759: 1, S0031: 1, H0444: 1, H0707: 1, L0591: 1, L0592: 1, H0668: 1, H0665: 1, S0192: 1, S0242: 1, H0423: 1, H0422: 1, S0424: 1, S0460: 1 and S0384: 1.		
						L0794: 3, L0752: 3, L0520: 2, L0803: 2,		

HISBM03	1017772	533	748 - 924	2708	Pro-2 to Leu-8, Phe-12 to Arg-20, Thr-32 to Lys-38.	L0776: 2, L0666: 2, L0665: 2, L0758: 2, L0759: 2, H0392: 1, H0581: 1, L0471: 1, H0083: 1, H0687: 1, S0003: 1, L0769: 1, L0639: 1, L0648: 1, L0375: 1, L0657: 1, L0659: 1, L0518: 1, H0659: 1 and L0777: 1, L0766: 25, L0439: 20, L0438: 16, L0758: 11, L0747: 9, L0731: 9, L0794: 8, L0805: 8, L0748: 8, L0752: 7, L0759: 7, H0038: 6, L0769: 6, L0809: 6, L0750: 6, L0777: 6, L0757: 6, L0592: 6, L0770: 5, L0803: 5, L0749: 5, L0593: 5, H0581: 4, L0774: 4, L0776: 4, H0435: 4, H0521: 4, L0740: 4, L0754: 4, H0305: 3, S0418: 3, H0013: 3, H0318: 3, S0003: 3, H0616: 3, H0412: 3, H0413: 3, S0422: 3, L0800: 3, L0771: 3,		
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HOFAA79	1017801	534	2 - 559	2709	Ala-15 to Asp-26, Phe-108 to Trp-113, Glu-167 to Tyr-175.	L0790: 1, L0792: 1, L0663: 1, H0144: 1, L0352: 1, H0547: 1, S0126: 1, H0658: 1, H0670: 1, H0696: 1, H0134: 1, S0406: 1, H0626: 1, S3012: 1, S0390: 1, L0786: 1, H0595: 1, S0434: 1, L0599: 1, H0653: 1, H0667: 1, S0192: 1, H0542: 1, H0543: 1, H0422: 1, S0042: 1 and S0424: 1.			
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HPRAJ96	1017825	535	587 - 429	2710		L0740: 21, L0748: 14, L0731: 10, L0747: 9, L0752: 9, L0757: 7, H0674: 6, L0750: 6, S0358: 5, L0768: 5, L0809: 5, H0648: 5, L0779: 5, H0318: 4, L0766: 4, L0776: 4,	1p36.1		116600, 120550, 120570, 120575, 130500, 133200, 171760, 171760,

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HBXFX71	1018032	536	1 - 123	2711		Pro-1 to Ser-6, Pro-9 to Pro-16, ... Pro-34 to Leu-41.	H0549: 5, L0769: 5, L0157: 4, L0742: 3, S0010: 2, H0620: 2, S0051: 2, H0617: 2, H0483: 1, H0661: 1, S0420: 1, S0045: 1, H0411: 1, H0550: 1, H0370: 1, H0438: 1, H0434: 1, H0545: 1, H0615: 1, S0112: 1, H0494: 1, L0770: 1, L0364: 1, L0783: 1, L0809: 1, L0666: 1, H0547: 1, H0682: 1, H0672: 1, L0779: 1, L0758: 1 and L0592: 1.			
HMVDD81	1018080	537	14 - 745	2712		Arg-8 to Gly-17, Gly-29 to Pro-45, Arg-62 to Leu-84, Gln-87 to Leu-96, Glu-103 to Val-114, Gln-141 to Cys-153, Ile-162 to Glu-180, Arg-186 to Lys-211, Asn-219 to Asn- 228.	H0694: 92, L0747: 14, L0766: 13, L0764: 7, S0126: 7, L0439: 7, L0758: 7, L0759: 7, H0657: 6, H0656: 6, S0358: 6, H0266: 6, L0763: 6, L0776: 6, L0655: 6, L0659: 6, L0666: 6, L0748: 6, L0777: 6, L0752: 6, H0445: 6, H0486: 5,			

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HVVDH50	1018226	538	2344 - 1004	2713	Pro-18 to Ser-40, Pro-81 to Pro-95, Pro-111 to Phe-118, Gly-127 to Ala-132, Pro-143 to Phe-151, Pro-164 to Pro-174, Pro-180 to Lys-187, Met-205 to Phe-211, Phe-228 to Pro-236, Pro-245 to Pro-255, Ala-263 to His-270, Gln-272 to Gln-280, Asn-296 to Ala-304, Gly-333 to Gly-344,	L0793: 1, L0664: 1, H0520: 1, H0519: 1, H0593: 1, H0689: 1, H0672: 1, H0651: 1, S0378: 1, S0152: 1, S0350: 1, H0522: 1, S0013: 1, H0704: 1, H0576: 1, S0390: 1, S0027: 1, L0756: 1, L0779: 1, L0780: 1, L0755: 1, H0595: 1, L0596: 1, L0588: 1, L0589: 1, L0366: 1, S0011: 1, S0026: 1, H0665: 1, L0600: 1, H0008: 1 and H0352: 1, L0751: 17, L0731: 11, S0344: 9, S0126: 9, L0743: 9, L0595: 9, S0046: 8, S0002: 8, H0521: 8, L0744: 8, S0278: 7, S0037: 7, L0750: 7, S0420: 6, H0618: 6, H0024: 6, H0188: 6, H0622: 6, S0314: 6, L0439: 6, H0550: 5, H0620: 5, H0551: 5, H0623: 5, L0659: 5, H0255: 4, S0418: 4, H0052: 4,	7q32	180105, 190900, 222800, 246900
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					<p>Thr-353 to Ser-360, Gln-365 to Val-379, Pro-381 to Arg-390, Glu-418 to Gln-423, Leu-438 to Ser-445.</p>	<p>S0142: 4, S0426: 4, L0663: 4, H0435: 4, S0027: 4, L0742: 4, L0754: 4, L0758: 4, H0265: 3, H0556: 3, S0040: 3, S0212: 3, S0045: 3, H0599: 3, H0253: 3, T0048: 3, H0266: 3, H0271: 3, S0250: 3, H0494: 3, S0440: 3, H0641: 3, S0144: 3, L0646: 3, L0662: 3, L0775: 3, L0809: 3, L0749: 3, L0777: 3, L0752: 3, H0542: 3, T0002: 2, H0295: 2, H0662: 2, H0306: 2, S0356: 2, S0442: 2, S0360: 2, H0580: 2, H0393: 2, S0222: 2, H0592: 2, H0559: 2, T0039: 2, H0013: 2, H0250: 2, S0280: 2, H0575: 2, H0581: 2, H0597: 2, H0544: 2, H0545: 2, H0046: 2, H0179: 2, H0252: 2, H0039: 2, H0030: 2, H0628: 2, H0617: 2, H0124: 2,</p>		
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HNNBT57	1018243	539	377 - 3	2714	Pro-9 to Ala-24, Thr-52 to Gly-61, Thr-64 to Ser-70.		H0677: 7			
HCONJ11	1018459	540	1937 - 1125	2715	His-11 to Ala-17, Pro-29 to Ser-35, Asn-59 to Asp-64, Lys-67 to Leu-72, Gln-101 to Asp-110, Pro-157 to Lys-176, Gln-181 to Lys-210, Gln-213 to Lys-228, Pro-253 to Asn-264.	H0581: 3, H0615: 3, L0766: 3, L0777: 3, H0657: 2, H0486: 2, H0013: 2, H0641: 2, L0803: 2, S0011: 2, H0543: 2, H0423: 2, H0556: 1, H0341: 1, S0420: 1, S0356: 1, H0580: 1, H0586: 1, H0575: 1, S0049: 1, H0263: 1, H0545: 1, H0150: 1, H0041: 1, H0009: 1, L0471: 1, H0014: 1, S0051: 1, S0003: 1, H0328: 1, H0622: 1, H0032: 1, H0674: 1, H0038: 1,	10q23	174900, 236730, 601493		

								H0616: 1, H0551: 1, T0041: 1, S0440: 1, S0422: 1, L0598: 1, H0529: 1, L0520: 1, L0640: 1, L0770: 1, L0794: 1, L0774: 1, L0776: 1, L0655: 1, L0540: 1, L0789: 1, L0792: 1, L0663: 1, L0665: 1, S0374: 1, H0520: 1, H0547: 1, H0689: 1, H0659: 1, H0670: 1, H0666: 1, S0380: 1, H0696: 1, L0742: 1, L0439: 1, L0754: 1, L0590: 1, L0599: 1, H0542: 1, L0718: 1 and L0600: 1.		
HCQAW68	1018501	541	1652 - 1212	2716	Asn-19 to Ile-26, Val-44 to Lys-54, Arg-70 to Val-83, Arg-95 to Thr-100, Arg-136 to Arg-141.	L0748: 4, L0777: 4, L0756: 2, H0263: 1, H0046: 1, H0023: 1, H0188: 1, L0761: 1, L0662: 1, L0526: 1, L0790: 1, L0747: 1 and L0758: 1.				
HVVCY25	1018772	542	1170 - 355	2717	Ser-7 to Trp-12, Pro-28 to Gly-58, Lys-212 to Cys-218, Glu-229 to Gly-235.	H0547: 10, H0542: 10, H0266: 9, L0794: 7, S0358: 6, H0559: 6, L0803: 6, L0666: 6, L0601: 6, H0013: 5,	19p13.3- p13.2	108725, 120700, 133171, 136836, 143890,		

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	H0696: 2, H0555: 2, H0436: 2, S0027: 2, L0439: 2, L0779: 2, S0434: 2, L0596: 2, H0136: 2, H0543: 2, H0423: 2, L0600: 2, H0624: 1, H0171: 1, H0685: 1, H0583: 1, H0650: 1, H0656: 1, S0116: 1, S0212: 1, S0282: 1, H0484: 1, H0255: 1, H0662: 1, H0638: 1, H0125: 1, S0418: 1, S0420: 1, S0356: 1, S0376: 1, S0132: 1, H0437: 1, H0261: 1, H0549: 1, H0370: 1, L0586: 1, H0069: 1, T0048: 1, H0196: 1, H0052: 1, H0204: 1, H0545: 1, H0009: 1, H0566: 1, H0081: 1, H0050: 1, H0012: 1, T0003: 1, H0373: 1, S0388: 1, T0010: 1, H0375: 1, H0687: 1, L0483: 1, H0031: 1, H0553: 1, H0644: 1, H0628: 1, H0617: 1, H0606: 1,	
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H0687: 1, H0290: 1, H0028: 1, S0214: 1, H0688: 1, H0428: 1, T0023: 1, H0213: 1, H0553: 1, H0644: 1, H0111: 1, H0617: 1, H0165: 1, L0456: 1, S0036: 1, H0264: 1, H0413: 1, T0004: 1, H0509: 1, H0641: 1, H0647: 1, H0646: 1, S0208: 1, S0210: 1, L0520: 1, L0770: 1, L0638: 1, L0637: 1, L0761: 1, L0642: 1, L0773: 1, L0521: 1, L0768: 1, L0803: 1, L0775: 1, L0784: 1, L0378: 1, L0653: 1, L0654: 1, L0555: 1, L0655: 1, L0807: 1, L0656: 1, L0635: 1, L0517: 1, L0384: 1, L0367: 1, L0790: 1, S0374: 1, S0310: 1, H0520: 1, H0519: 1, H0690: 1, H0684: 1, H0659: 1, S0330: 1, S0378: 1, H0518: 1, S0044: 1, S3012: 1,					
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HVVCF30	1018907	544	50 - 319	2719	Pro-13 to Ala-20, Pro-53 to Ser-61.					
HODBV21	1018943	545	1186 - 476	2720			H0328: 2			
HCHMD81	1019326	546	1 - 1005	2721	Ala-4 to Ala-11.		L0758: 9, L0770: 7, H0620: 6, L0731: 6, L0747: 5, L0777: 5, H0265: 4, L0771: 4, L0748: 4, L0759: 4, L0769: 3, L0662: 3, L0774: 3, L0526: 3, L0439: 3, L0751: 3, L0750: 3, S0358: 2, H0424: 2, S0144: 2, L0520: 2, L0764: 2, L0364: 2, L0776: 2, L0809: 2, L0664: 2, L0754: 2, S0436: 2, L0588: 2, L0601: 2, H0556: 1, H0685: 1, S0040: 1, S6024: 1, H0341: 1, H0484: 1, H0661: 1, H0306: 1,			

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HAZAR95	1019338	547	11 - 1192	2722	Arg-63 to Arg-77, Glu-186 to Trp-192, Ile-222 to Tyr-228, Lys-284 to Glu-293, Asn-324 to Ser-329, Pro-375 to Lys-388.	L0666: 13, L0665: 13, L0588: 12, L0601: 9, S0358: 8, L0664: 8, S0360: 7, L0471: 7, L0657: 7, L0659: 7, L0748: 7, H0415: 6, S0214: 6, L0520: 6, L0372: 6, L0803: 6, L0375: 6, L0655: 6, H0659: 6, L0608: 6, L0362: 6, L0361: 6, S0376: 5, L0663: 5, L0439: 5, T0049: 4, H0581: 4, L0646: 4, L0804: 4, L0809: 4, S0328: 4, L0747: 4, L0749: 4, L0755: 4, L0731: 4, L0591: 4, L0604: 4, L0595: 4, H0542: 4, H0662: 3, H0545: 3, H0687: 3, H0100: 3, H0509: 3, H0529: 3, L0763: 3, L0764: 3, L0662: 3, L0794: 3, S0330: 3, L0740: 3, H0445: 3, L0600: 3, H0265: 2, H0661: 2, S0418: 2, H0156: 2, H0318: 2, H0172: 2, H0620: 2,	12q23	124200, 147440, 160781, 235800, 600175
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HMWFS51	1019409	548	65 - 484	2723					L0565: 1, H0691: 1, L0438: 1, H0547: 1, H0519: 1, H0365: 1, H0689: 1, H0684: 1, H0658: 1, H0660: 1, H0666: 1, S0332: 1, H0522: 1, S0013: 1, H0696: 1, H0704: 1, S0044: 1, S0404: 1, H0436: 1, S0432: 1, S3012: 1, S0027: 1, S0206: 1, L0779: 1, L0759: 1, L0683: 1, S0434: 1, L0589: 1, L0590: 1, L0599: 1, S0026: 1, H0653: 1, H0667: 1, H0423: 1 and H0352: 1.		
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								H0030: 1, H0674: 1, H0647: 1, L0763: 1, L0646: 1, L0374: 1, L0662: 1, L0768: 1, L0774: 1, L0663: 1, L0438: 1, H0520: 1, H0658: 1, S0328: 1, H0478: 1, L0745: 1, L0758: 1, H0445: 1 and L0599: 1.		
HE8SD82	1019585	549	1 - 570	2724	Asn-1 to Pro-7, Glu-33 to Ser-40, Pro-54 to Thr-63, Leu-82 to Arg-106, Gly-109 to Asn-119, Glu-145 to Val-150, Lys-161 to Gln-168, Arg-170 to Phe-175, Thr-177 to Tyr-184.			H0031: 4, S0007: 2, H0244: 2, S0010: 2, H0194: 2, H0553: 2, S0036: 2, H0040: 2, H0529: 2, L0005: 1, S0356: 1, H0676: 1, H0411: 1, S0222: 1, S6014: 1, H0587: 1, H0497: 1, H0013: 1, H0575: 1, H0327: 1, L0471: 1, H0024: 1, L0143: 1, H0038: 1, H0494: 1, H0538: 1, H0660: 1, H0539: 1, H0521: 1, H0555: 1 and H0136: 1.		
HSFSPN08	1019608	550	77 - 1120	2725	Pro-25 to Glu-54, Ser-66 to Glu-71, Gly-86 to Trp-92, Arg-104 to Asn-109,			H0683: 11, H0617: 3, L0766: 2, H0686: 1, H0254: 1, H0255: 1, L0021: 1, H0123: 1,		

HVCAH24	1019749	551	97 - 468	2726	Asn-133 to Asn-138, Thr-153 to Ser-160, Asn-269 to Glu-277, Leu-290 to Tyr-297.	H0012: 1, S0051: 1, H0083: 1, H0039: 1, T0006: 1, H0413: 1, L0794: 1, L0809: 1, L0748: 1 and S0026: 1.  H0156: 2, H0624: 1, H0171: 1, H0686: 1, H0656: 1, H0574: 1, H0486: 1, S0316: 1, H0622: 1, H0038: 1, S0150: 1, H0520: 1, H0547: 1, H0658: 1, H0666: 1, H0521: 1 and S0028: 1.		
HCEBF54	1019777	552	400 - 840	2727	Pro-89 to Leu-101.	AR104: 2, AR061: 1, AR089: 1, AR033: 0, AR060: 0, AR096: 0, AR053: 0, AR039: 0, AR055: 0, AR052: 0 L0794: 2, L0803: 2, L0655: 2, L0665: 2, H0684: 2, L0754: 2, L0747: 2, H0686: 1, L0470: 1, H0662: 1, H0125: 1, S0360: 1, L0021: 1, H0052: 1, H0085: 1, H0597: 1, H0009: 1, S0362: 1, H0644: 1, H0673: 1, L0060: 1, H0560: 1,		

						L0638: 1, L0761: 1, L0373: 1, L0765: 1, L0774: 1, L0805: 1, L0809: 1, L0790: 1, L0666: 1, L0664: 1, H0689: 1, H0682: 1, H0660: 1, L0742: 1, L0748: 1, S0434: 1, L0592: 1, L0608: 1, L0601: 1, H0542: 1 and H0423: 1.			
HPQAD21	1019869	553	176 - 271	2728		S0136: 115, L0803: 9, S0026: 9, L0731: 8, H0624: 6, S0418: 6, S0358: 6, L0805: 6, H0619: 5, L0666: 5, L0439: 5, L0754: 5, L0756: 5, H0170: 4, S0360: 4, H0553: 4, L0662: 4, H0547: 4, L0750: 4, L0779: 4, H0351: 3, H0486: 3, H0046: 3, H0050: 3, L0471: 3, H0266: 3, H0623: 3, L0770: 3, H0144: 3, H0520: 3, S0380: 3, S0040: 2, H0295: 2, H0661: 2, S0420: 2, S0376: 2, H0722: 2, H0369: 2,			

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HVCAE76	1019942	555	99 - 2111	2730		L0750: 2, S0114: 1, H0656: 1, S0212: 1, H0663: 1, H0586: 1, H0546: 1, H0024: 1, H0083: 1, H0510: 1, H0428: 1, H0038: 1, H0560: 1, H0646: 1, L0763: 1, L0773: 1, L0662: 1, L0774: 1, L0378: 1, L0661: 1, L0384: 1, L0789: 1, L0666: 1, L0438: 1, S0028: 1, L0747: 1, L0756: 1, L0758: 1, H0423: 1 and S0460: 1.		
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HOCMH14	1020007	556	1 - 1485	2731	His-3 to Trp-8, Glu-16 to Gly-23, Tyr-47 to Glv-56.	H0351: 1, H0411: 1, H0550: 1, H0333: 1, S0280: 1, H0098: 1, H0122: 1, H0318: 1, H0581: 1, H0263: 1, H0457: 1, H0566: 1, H0050: 1, S0050: 1, H0051: 1, H0188: 1, H0687: 1, H0615: 1, H0039: 1, L0055: 1, H0598: 1, H0040: 1, S0440: 1, H0529: 1, L0761: 1, L0667: 1, L0363: 1, L0768: 1, L0649: 1, L0804: 1, L0776: 1, L0661: 1, L0659: 1, L0809: 1, L0663: 1, L0665: 1, L0352: 1, H0547: 1, H0690: 1, H0666: 1, H0648: 1, H0555: 1, H0436: 1, S0390: 1, S0028: 1, L0744: 1, L0740: 1, L0747: 1, L0752: 1, L0753: 1, L0759: 1, S0031: 1 and L0605: 1.	H0457: 7, L0743: 5, L0439: 5, L0751: 5, L0752: 5, L0731: 4,
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Ala-88 to Cys-93, Ala-108 to Ser-139, Ser-145 to Ser-151, Asp-154 to Ala-164, Pro-168 to Thr-189, Pro-196 to Ser-203, Pro-229 to Ala-235, Thr-255 to Glu-261, Pro-271 to Pro-276, Pro-289 to Asn-310, Pro-318 to Tyr-329, Arg-334 to Arg-345, Arg-347 to Thr-356, Lys-373 to Arg-391, Glu-396 to Pro-414.	H0618: 3, H0253: 3, H0545: 3, L0662: 3, H0689: 3, L0748: 3, L0777: 3, L0758: 3, L0785: 2, H0692: 2, H0662: 2, H0550: 2, S0049: 2, L0770: 2, L0764: 2, L0659: 2, H0670: 2, L0779: 2, L0757: 2, L0759: 2, S0434: 2, H0225: 1, S0218: 1, H0650: 1, H0656: 1, L0426: 1, S0212: 1, S0442: 1, H0489: 1, H0580: 1, S0046: 1, S0132: 1, S0476: 1, H0549: 1, H0587: 1, H0333: 1, H0559: 1, H0427: 1, L0021: 1, H0599: 1, H0274: 1, H0581: 1, H0421: 1, H0052: 1, H0231: 1, L0157: 1, H0566: 1, H0123: 1, T0010: 1, H0408: 1, H0355: 1, H0266: 1, H0271: 1, H0687: 1, H0163: 1, H0087: 1, H0494: 1, H0359: 1, S0344: 1, L0371: 1.
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HPDRZ03	1020130	557	122 - 751	2732	Asp-7 to Ala-15, Pro-34 to Ile-60, Gln-110 to Asn-117.	L0637: 1, L0761: 1, L0646: 1, L0773: 1, L0363: 1, L0774: 1, L0375: 1, L0805: 1, L0658: 1, L0384: 1, L0543: 1, L0666: 1, L0663: 1, H0547: 1, H0593: 1, H0684: 1, H0660: 1, S0380: 1, H0710: 1, S0152: 1, H0521: 1, H0696: 1, H0134: 1, S0406: 1, H0436: 1, S0432: 1, L0744: 1, L0740: 1, S0436: 1, L0593: 1, H0665: 1 and H0422: 1. L0777: 4, S0358: 3, H0486: 3, L0750: 3, L0779: 3, L0752: 3, S0412: 3, S0134: 2, H0013: 2, L0766: 2, L0803: 2, H0519: 2, H0658: 2, L0599: 2, L0604: 2, S0192: 2, T0002: 1, S0342: 1, S0212: 1, H0661: 1, H0619: 1, H0411: 1, H0632: 1, T0114: 1, H0575: 1, H0318: 1, T0110: 1, H0544: 1,		
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HOCPO73	1020180	558	3745 - 2963	2733				H0457: 1, H0328: 1, L0055: 1, H0169: 1, T0067: 1, S0422: 1, L0763: 1, L0773: 1, L0363: 1, L0804: 1, L0806: 1, L0663: 1, H0648: 1, S0152: 1, L0751: 1, L0756: 1, L0755: 1, L0731: 1, L0758: 1, L0593: 1, L0594: 1, H0665: 1, H0543: 1 and S0424: 1.		
								L0777: 7, L0759: 5, L0638: 3, L0766: 3, L0804: 3, L0663: 3, L0439: 3, H0657: 2, L0055: 2, L0666: 2, H0660: 2, L0604: 2, L0615: 1, S0358: 1, L0471: 1, H0628: 1, H0038: 1, S0344: 1, H0529: 1, L0761: 1, L0630: 1, L0646: 1, L0764: 1, L0364: 1, L0803: 1, L0805: 1, L0655: 1, L0809: 1, L0790: 1, L0532: 1, H0689: 1, H0435: 1, H0658: 1, S0330: 1, H0521: 1, H0436: 1,		

HNKDT10	1020832	559	2 - 535	2734				L0740: 1, L0749: 1, L0750: 1, L0757: 1, L0594: 1, L0595: 1 and S0026: 1.		
								S0330: 109, S0328: 51, S0446: 12, L0659: 5, L0666: 4, L0779: 4, S0456: 4, L0717: 3, L0775: 3, H0593: 3, L0748: 3, L0439: 3, L0747: 3, L0749: 3, L0758: 3, L0021: 2, H0615: 2, L0662: 2, L0766: 2, L0803: 2, L0663: 2, L0665: 2, S0310: 2, H0658: 2, H0648: 2, S0406: 2, L0740: 2, L0731: 2, L0595: 2, H0624: 1, H0662: 1, S0376: 1, H0351: 1, H0411: 1, H0587: 1, L0022: 1, L0105: 1, H0688: 1, H0617: 1, L0455: 1, H0494: 1, S0352: 1, S0464: 1, S0440: 1, S0422: 1, L0772: 1, L0646: 1, L0771: 1, L0773: 1, L0649: 1, L5569: 1, L0499: 1,		

								L0375: 1, L0651: 1, L0784: 1, L0806: 1, L0509: 1, L0655: 1, L0657: 1, L0513: 1, L0809: 1, L0545: 1, L0790: 1, L0791: 1, L0792: 1, L0664: 1, H0144: 1, H0519: 1, S0126: 1, S0404: 1, H0555: 1, L0751: 1, L0777: 1, S0436: 1 and L0592: 1.			
HWHGO25	1020841	560	3 - 113	2735	Gly-7 to Leu-15, Pro-17 to His-29.			L0747: 5, L0805: 3, L0761: 2, L0803: 2, L0775: 2, H0658: 2, L0758: 2, S0298: 1, H0586: 1, H0597: 1, L0646: 1, L0776: 1, L0518: 1, L0519: 1, L0528: 1, L0529: 1, L0790: 1, L0666: 1, H0690: 1, H0521: 1, L0749: 1 and L0777: 1.			
HWMNE31	1020852	561	157 - 681	2736	Thr-15 to Trp-23, Ala-44 to Gln-51, Lys-62 to Arg-70, Asp-102 to Lys-114, Val-116 to Ala-148, Phe-151 to Glu-163.			L0803: 13, L0766: 10, L0731: 8, L0751: 6, L0601: 6, L0756: 5, L0764: 4, L0789: 4, S0136: 4, H0436: 4, L0777: 4, L0596: 4, H0556: 3, H0580: 3,			

	H0328: 3, H0615: 3, H0090: 3, L0775: 3, L0666: 3, L0747: 3, L0755: 3, L0758: 3, S0412: 3, H0341: 2, S0376: 2, H0393: 2, H0549: 2, H0431: 2, H0587: 2, H0013: 2, L0021: 2, H0597: 2, H0014: 2, H0644: 2, L0800: 2, L0773: 2, L0662: 2, L0784: 2, L0805: 2, L0438: 2, H0520: 2, H0648: 2, L0748: 2, L0439: 2, L0740: 2, L0604: 2, H0265: 1, H0685: 1, S0114: 1, H0657: 1, H0656: 1, H0661: 1, H0663: 1, H0402: 1, S0358: 1, S0444: 1, S0360: 1, S0045: 1, H0351: 1, L0394: 1, S0222: 1, H0333: 1, H0575: 1, H0318: 1, H0421: 1, H0052: 1, T0103: 1, H0570: 1, H0024: 1, H0083: 1, H0067: 1, H0188: 1, S0003: 1, S0214: 1,	
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						H0622: 1, H0673: 1, L0456: 1, H0163: 1, H0591: 1, H0040: 1, H0551: 1, T0067: 1, H0412: 1, H0560: 1, H0647: 1, S0142: 1, S0208: 1, S0422: 1, H0695: 1, L0369: 1, L0520: 1, L0763: 1, L0770: 1, L0638: 1, L0771: 1, L0794: 1, L0774: 1, L0651: 1, L0378: 1, L0776: 1, L0657: 1, L0809: 1, L0532: 1, L0663: 1, L0664: 1, L0665: 1, H0144: 1, H0725: 1, H0659: 1, H0666: 1, H0518: 1, H0521: 1, S0013: 1, H0696: 1, S0406: 1, S3014: 1, S0027: 1, L0754: 1, L0749: 1, L0752: 1, L0757: 1, S0260: 1, L0592: 1, S0026: 1, S0276: 1, H0542: 1, H0423: 1, H0422: 1 and H0721: 1.				
HUSYJ75	1020878	562	1 - 420	2737		H0484: 35, L0751: 15, L0758: 12, H0483: 10,				

	L0743: 9, H0370: 8, S0442: 7, S0126: 7, S0436: 7, S0420: 6, L0766: 6, H0670: 6, H0672: 6, L0744: 6, L0779: 6, S0434: 6, H0661: 5, S0476: 5, H0617: 5, H0660: 5, S0027: 5, L0747: 5, L0592: 5, S0040: 4, H0716: 4, H0662: 4, S0140: 4, H0545: 4, H0150: 4, S0440: 4, H0641: 4, H0689: 4, H0682: 4, H0684: 4, S0380: 4, S0406: 4, S3014: 4, S0356: 3, H0729: 3, H0733: 3, S0007: 3, H0639: 3, H0123: 3, H0424: 3, S0366: 3, H0087: 3, H0647: 3, L0769: 3, L0775: 3, H0690: 3, H0696: 3, S3012: 3, L0740: 3, H0543: 3, L0600: 3, H0713: 2, H0663: 2, S0376: 2, S0444: 2, S0408: 2, S0046: 2, H0619: 2, S0300: 2, S0278: 2,	
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	H0592: 2, H0052: 2, L0157: 2, H0688: 2, H0606: 2, H0674: 2, H0059: 2, H0100: 2, L0763: 2, L0771: 2, L0649: 2, L0633: 2, L0383: 2, H0520: 2, H0435: 2, H0658: 2, H0648: 2, H0436: 2, S0390: 2, L0748: 2, L0777: 2, L0731: 2, L0757: 2, L0759: 2, S0260: 2, H0686: 1, S6024: 1, H0294: 1, S0134: 1, H0657: 1, H0656: 1, S0180: 1, S0212: 1, H0254: 1, S0418: 1, S0354: 1, S0410: 1, H0722: 1, S0045: 1, S0132: 1, H0393: 1, H0550: 1, H0587: 1, H0333: 1, T0109: 1, H0101: 1, H0427: 1, H0575: 1, H0706: 1, T0048: 1, S0474: 1, H0581: 1, S0049: 1, H0309: 1, H0597: 1, H0231: 1, H0009: 1, H0178: 1, H0567: 1, H0024: 1,					
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HSDFS07	1020904	563	2 - 1018	2738	Glu-1 to Asn-6, Glu-14 to Leu-19, Pro-22 to Ile-30, Ser-32 to Asp-40,	H0051: 1, H0099: 1, H0594: 1, H0188: 1, S0214: 1, H0604: 1, H0417: 1, H0181: 1, H0673: 1, H0551: 1, H0412: 1, H0413: 1, H0494: 1, H0334: 1, S0150: 1, S0426: 1, H0529: 1, L0373: 1, L0374: 1, L0764: 1, L0385: 1, L0774: 1, L0375: 1, L0654: 1, L0657: 1, L0659: 1, L5623: 1, L0368: 1, L0665: 1, H0702: 1, H0519: 1, H0683: 1, S0328: 1, S0330: 1, H0539: 1, S0378: 1, H0522: 1, S0037: 1, S0028: 1, S0206: 1, L0754: 1, L0750: 1, H0445: 1, H0595: 1, L0591: 1, L0361: 1, L0601: 1, S0192: 1, H0542: 1, H0423: 1 and S0456: 1.		
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					Ser-44 to Gln-53.	H0519: 2, L0756: 2, L0780: 2, H0369: 1, S0222: 1, S0346: 1, H0050: 1, H0428: 1, L0194: 1, L0455: 1, H0494: 1, L0769: 1, L0806: 1, L0807: 1, L0664: 1, H0520: 1, L0747: 1, L0779: 1, L0759: 1, S0031: 1 and L0592: 1.		
HCOPC09	1021208	564	620 - 378	2739	Glu-49 to Asn-62.	L0764: 3, S0360: 2, H0331: 2, H0575: 2, L0769: 2, H0670: 2, L0747: 2, L0777: 2, L0601: 2, S0358: 1, H0455: 1, H0492: 1, L0021: 1, L0763: 1, L0662: 1, L0803: 1, L0774: 1, L0775: 1, L0809: 1, H0683: 1, H0522: 1, L0743: 1, L0362: 1 and H0422: 1.		
HVVBT22	1021323	565	811 - 2	2740	Pro-5 to Lys-15, Asn-31 to Ala-38, Asp-57 to Arg-64, Ala-75 to Asp-90, Gln-98 to Gly-123, Arg-125 to Gly-142, Met-155 to Gly-160.	H0424: 5, L0766: 3, S0222: 2, S0214: 2, S0422: 2, S0126: 2, S0330: 2, L0759: 2, L0362: 2, L0361: 2, H0653: 2, H0220: 1, H0656: 1, H0341: 1,		

					Leu-162 to Pro-182, Arg-187 to Met-192, Ser-199 to Asp-219, Pro-224 to Pro-253.	H0449: 1, S0376: 1, S0045: 1, H0351: 1, H0587: 1, H0497: 1, S0010: 1, L0471: 1, H0373: 1, H0083: 1, H0266: 1, L0055: 1, H0163: 1, H0591: 1, H0551: 1, H0366: 1, H0509: 1, H0538: 1, L0770: 1, L0772: 1, L0381: 1, L0775: 1, L0653: 1, L0518: 1, L0665: 1, H0144: 1, H0520: 1, H0547: 1, H0689: 1, H0672: 1, S0328: 1, H0539: 1, H0696: 1, L0747: 1, L0752: 1, L0591: 1, L0592: 1, H0216: 1 and S0396: 1.			
HAMFW66	1021327	566	8 - 988	2741	His-3 to Phe-9, Asn-176 to Thr-184, Glu-217 to Lys-225, Lys-263 to Asp-268.	AR053: 3, AR052: 3, AR096: 2, AR033: 2, AR089: 2, AR055: 2, AR104: 1, AR060: 1, AR061: 0, AR039: 0, L0754: 12, S0410: 10, L0766: 9, L0591: 7, L0748: 4, L0752: 4, H0423: 4, H0556: 3, S0360: 3, L0646: 3,			

L0527: 3, L0596: 3, H0170: 2, H0265: 2, S0114: 2, S0218: 2, H0266: 2, H0615: 2, H0056: 2, H0560: 2, H0561: 2, L0803: 2, L0782: 2, H0547: 2, H0134: 2, H0436: 2, L0756: 2, H0445: 2, L0362: 2, H0543: 2, L0002: 1, H0650: 1, S0418: 1, H0208: 1, S0046: 1, S0476: 1, H0619: 1, H0437: 1, H0550: 1, T0114: 1, H0013: 1, T0048: 1, H0318: 1, L0109: 1, H0050: 1, L0471: 1, S0051: 1, H0083: 1, H0328: 1, H0622: 1, H0604: 1, H0031: 1, H0591: 1, H0551: 1, H0268: 1, H0623: 1, H0100: 1, H0132: 1, L0763: 1, L0667: 1, L0388: 1, L0804: 1, L0776: 1, L0606: 1, L0657: 1, L0659: 1, L0542: 1, L0518: 1, L0809: 1, L0791: 1,
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							L0792: 1, L0793: 1, H0519: 1, H0682: 1, H0648: 1, S0330: 1, S0152: 1, S0406: 1, L0750: 1, L0779: 1, L0757: 1, L0759: 1, L0480: 1, H0542: 1 and H0506: 1.			
HPMBW86	1021661	567	3 - 179	2742	Leu-2 to Gly-15, Val-31 to Gly-40, Gly-45 to Ala-51.		H0341: 1, S0222: 1, H0156: 1, H0052: 1, H0031: 1, L0766: 1, H0658: 1, H0670: 1 and L0612: 1.			
HOFMK02	1021666	568	138 - 230	2743	Thr-24 to Leu-29.		H0415: 2 and H0486: 1.	11p15	108985, 186921, 602092	
HOUHK71	1021682	569	311 - 370	2744	Arg-11 to Trp-20.		L0755: 4, H0638: 2, S0342: 1, H0101: 1, H0457: 1, H0051: 1, L0768: 1, L0803: 1, L0650: 1, L0806: 1, L0518: 1, H0689: 1, H0648: 1, L0756: 1 and L0759: 1.			
HCOOW23	1021759	570	54 - 800	2745	Thr-10 to Arg-16, Arg-21 to Ser-31, Asn-97 to Arg-102, Ile-170 to Ser-175, Thr-207 to Gly-213.					
HACMT02	1021794	571	272 - 3	2746			H0685: 2			



HISDS67	1022018	572	2322 - 1756	2747	Gln-4 to Ala-17, Ala-56 to Gln-61, Cys-166 to Ala-182.	L0754: 8, H0553: 4, L0770: 4, L0794: 4, H0615: 3, L0769: 3, L0803: 3, L0439: 3, L0777: 3, L0752: 3, H0052: 2, L0637: 2, L0768: 2, L0805: 2, L0659: 2, L0666: 2, L0664: 2, H0547: 2, H0593: 2, H0682: 2, H0539: 2, H0521: 2, L0744: 2, L0757: 2, L0604: 2, L0601: 2, H0624: 1, H0657: 1, H0656: 1, S0212: 1, H0254: 1, H0662: 1, L0005: 1, S0045: 1, H0619: 1, H0550: 1, H0592: 1, H0013: 1, H0036: 1, H0618: 1, H0620: 1, H0023: 1, S0051: 1, H0188: 1, H0028: 1, H0428: 1, T0006: 1, H0213: 1, L0455: 1, H0135: 1, H0038: 1, H0616: 1, H0264: 1, H0413: 1, T0069: 1, S0038: 1, H0100: 1, L0763: 1, L0638: 1, L5565: 1,		
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HOVAA59	1022037	573	2892 - 1309	2748	Pro-1 to Gly-10, Pro-20 to Gly-34, Pro-36 to Gly-45, Ala-51 to Pro-65, Val-78 to Arg-83, Gln-89 to Gly-98, Lys-114 to Val-119, Arg-158 to Ala-164, Thr-306 to Lys-313.	L0761: 1, L0667: 1, L0804: 1, L0650: 1, L0375: 1, L0776: 1, L0807: 1, L0809: 1, L0519: 1, L0663: 1, L0665: 1, H0520: 1, S0126: 1, H0684: 1, H0435: 1, H0659: 1, H0648: 1, S0190: 1, S0404: 1, H0555: 1, L0741: 1, L0751: 1, L0747: 1, L0753: 1 and L0758: 1.		
						L0601: 4, H0617: 3, L0794: 2, L0629: 2, L0657: 2, L0604: 2, T0049: 1, S0218: 1, L0785: 1, S0442: 1, H0733: 1, H0411: 1, T0109: 1, H0428: 1, H0673: 1, S0366: 1, H0040: 1, H0616: 1, L0763: 1, L0375: 1, L0805: 1, L0658: 1, H0593: 1, H0658: 1, H0672: 1, L0743: 1, L0744: 1, L0748: 1, L0740: 1, L0751: 1, L0754: 1, L0750: 1, L0596: 1, L0485: 1 and		

HOCPL72	1022059	574	2 - 1099	2749	Pro-1 to Glu-14, Pro-26 to Val-33, Tyr-167 to Tyr-174, Pro-188 to Ser-196.	H0721: 1, L0766: 3, H0457: 2, H0706: 1, H0015: 1, H0373: 1, H0266: 1, H0553: 1, H0551: 1, H0509: 1, L0761: 1, L0665: 1, H0144: 1, H0689: 1, H0660: 1 and S0328: 1.		
HCOMM05	1022082	575	1 - 840	2750	Gln-19 to Asp-38, Pro-46 to Thr-55, Leu-96 to Gly-104, Ala-114 to Ala-119, Gln-125 to Trp-131, Pro-133 to Pro-141, Phe-144 to Glu-150, Glu-180 to Val-185, Glu-192 to Glu-197, Glu-254 to Leu-262, Met-272 to Ser-280.	AR089: 1, AR096: 1, AR061: 1, AR060: 1, AR033: 1, AR055: 0, AR052: 0, AR039: 0, AR104: 0 L0508: 9, H0620: 7, L0774: 6, L0509: 6, S0408: 5, L0750: 5, L0601: 5, L0515: 4, L0512: 4, H0594: 3, L0805: 3, L0514: 3, L0511: 3, H0670: 3, L0755: 3, H0556: 2, H0686: 2, S0358: 2, S0444: 2, H0199: 2, H0181: 2, H0617: 2, H0494: 2, L0505: 2, L0502: 2, L0769: 2, L0803: 2, L0809: 2, L0528: 2, L0663: 2, L0752: 2, H0657: 1,		

HLYDC86	1022162	576	3 - 947	2751	Pro-39 to Arg-45, Arg-52 to Ile-60, Glu-87 to Cys-96, Thr-108 to Ser-114, Thr-121 to Glu-128.	H0255: 1, S0420: 1, S0442: 1, S0360: 1, H0549: 1, H0586: 1, L0021: 1, H0036: 1, H0052: 1, H0597: 1, H0086: 1, H0012: 1, S0336: 1, H0606: 1, H0124: 1, L0504: 1, L0763: 1, L0627: 1, L0373: 1, L0764: 1, L0499: 1, L0498: 1, L0497: 1, L0376: 1, L0653: 1, L0493: 1, L0510: 1, L0513: 1, L0384: 1, L0789: 1, L0666: 1, L0665: 1, H0689: 1, H0660: 1, H0672: 1, S0328: 1, S0330: 1, S0454: 1, S0406: 1, S0432: 1, L0754: 1, L0747: 1, L0749: 1, L0779: 1, L0777: 1, L0731: 1, L0759: 1, S0434: 1 and H0506: 1.	14q24.3	104311, 109150, 182600, 245200, 601208
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						Met-133 to Thr-141, Asn-154 to Ala-169, Glu-174 to His-179, Gln-205 to Gln-213, Pro-222 to Phe-231, Ser-259 to Phe-265, Leu-282 to Ser-288.	L0747: 1.			
HTLEP21	1022167	577	92 - 457	2752			H0253: 1 and L0767: 1.			
HVCAS77	1022313	578	170 - 1072	2753		Glu-7 to Leu-18, Glu-75 to Arg-80, Gln-152 to Gln-157, Gln-202 to Lys-219, Ser-259 to Gly-266, Glu-277 to His-287.	L0766: 7, L0769: 6, S0418: 4, L0747: 4, S0424: 3, H0341: 2, S0278: 2, L0471: 2, H0083: 2, H0538: 2, L0770: 2, L0771: 2, L0775: 2, L0809: 2, H0520: 2, L0744: 2, L0754: 2, L0777: 2, L0759: 2, L0597: 2, S0026: 2, H0667: 2, H0171: 1, H0686: 1, S0212: 1, H0125: 1, S0420: 1, S0358: 1, S0376: 1, S0360: 1, S0046: 1, H0393: 1, H0333: 1, H0575: 1, H0581: 1, H0309: 1, H0046: 1, H0567: 1, H0188: 1, H0428: 1, H0553: 1, H0135: 1,			

HOGCA79	1022627	579	210 - 635	2754	Thr-69 to Phe-77, Asp-80 to Thr-85.	H0040: 1, T0041: 1, L0369: 1, L0763: 1, L0643: 1, L0764: 1, L0773: 1, L0804: 1, L0375: 1, L0806: 1, L0776: 1, L0655: 1, L0783: 1, L0382: 1, L0666: 1, H0144: 1, H0593: 1, H0435: 1, H0659: 1, H0660: 1, H0666: 1, L0750: 1, L0755: 1, L0731: 1, L0757: 1 and H0543: 1.		
						H0547: 5, L0747: 4, L0766: 3, H0328: 2, H0551: 2, L0774: 2, H0435: 2, H0659: 2, H0436: 2, L0740: 2, L0754: 2, L0759: 2, L0596: 2, H0657: 1, H0341: 1, S0418: 1, S0360: 1, S0007: 1, H0229: 1, H0486: 1, H0013: 1, H0156: 1, H0037: 1, L0055: 1, L0455: 1, H0163: 1, H0616: 1, L0060: 1, H0560: 1, H0529: 1, L0763: 1, L0770: 1, L0764: 1, L0767: 1,		

HSKJP93	1022663	580	2 - 247	2755	Ser-3 to Gln-9, Thr-25 to Lys-40.	L0777: 9, H0622: 3, L0771: 3, L0747: 3, L0752: 3, H0657: 2, L0763: 2, L0517: 2, L0666: 2, L0748: 2, L0590: 2, H0050: 1, H0188: 1, H0687: 1, H0428: 1, H0039: 1, H0031: 1, H0032: 1, H0674: 1, S0036: 1, H0652: 1, L0369: 1, L0520: 1, L0769: 1, L0765: 1, L0773: 1, L0662: 1, L0794: 1, L0803: 1, L0804: 1, L0775: 1, L0651: 1, L0655: 1, L0659: 1, L0782: 1, L0789: 1, L0665: 1, L0438: 1,	L0768: 1, L0775: 1, L0806: 1, L0776: 1, L0659: 1, L0783: 1, L0663: 1, L0664: 1, H0658: 1, H0670: 1, S0380: 1, H0522: 1, H0134: 1, S0392: 1, H0345: 1, L0745: 1, L0756: 1, L0777: 1, L0780: 1, L0731: 1 and H0445: 1.		
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HAZAA64	1022719	581	106 - 705	2756	Asn-58 to Thr-64, Ile-72 to Ser-78, Gly-119 to Lys-128, Thr-185 to Leu-200.	H0670: 1, H0660: 1, S0406: 1, S3014: 1, L0756: 1, L0758: 1, L0759: 1, L0595: 1, S0011: 1 and H0712: 1.		
						H0695: 414, H0580: 44, L0777: 6, L0731: 6, H0052: 5, L0766: 5, L0747: 5, H0617: 4, H0494: 4, S0045: 3, H0083: 3, H0181: 3, H0038: 3, L0637: 3, L0779: 3, L0758: 3, H0484: 2, H0599: 2, S0049: 2, H0428: 2, L0774: 2, L0775: 2, L0518: 2, L0439: 2, L0750: 2, L0596: 2, L0588: 2, L0599: 2, L0601: 2, H0265: 1, H0556: 1, T0002: 1, S0040: 1, H0294: 1, H0341: 1, H0254: 1, H0255: 1, S0420: 1, S0444: 1, S0360: 1, H0208: 1, H0492: 1, L0623: 1, H0013: 1, S0280: 1, H0156: 1, L0021: 1, S0010: 1, H0194: 1, H0046: 1,		



HSEBD72	1022904	582	140 - 430	2757	Thr-11 to Arg-16, Asn-78 to Asp-84.	H0200: 1, H0051: 1, H0510: 1, H0375: 1, H0266: 1, H0188: 1, S0036: 1, H0087: 1, H0412: 1, H0102: 1, T0042: 1, L0475: 1, H0130: 1, L0769: 1, L0768: 1, L0794: 1, L0651: 1, L0776: 1, L0807: 1, L0665: 1, S0374: 1, H0520: 1, H0689: 1, H0690: 1, H0659: 1, H0660: 1, H0672: 1, S0328: 1, H0522: 1, H0696: 1, S3012: 1, S0028: 1, L0749: 1, L0755: 1, L0759: 1, L0608: 1, L0604: 1, S0011: 1 and H0543: 1.	14q24.1	182600
						S0406: 9, L0754: 9, L0747: 9, L0752: 9, H0556: 7, L0742: 7, L0758: 7, S0410: 6, H0658: 6, L0779: 6, H0656: 5, S0444: 5, S0360: 5, H0660: 5, H0657: 4, H0255: 4, H0545: 4, H0012: 4, H0620: 4, H0708: 4,		

L0744: 4, L0731: 4, H0423: 4, H0662: 3, L0622: 3, H0597: 3, H0199: 3, H0615: 3, H0688: 3, H0428: 3, S0440: 3, S0422: 3, H0529: 3, L0769: 3, L0768: 3, H0670: 3, H0134: 3, S3012: 3, L0743: 3, S0116: 2, H0125: 2, S0420: 2, S0046: 2, H0333: 2, H0486: 2, H0050: 2, H0023: 2, H0383: 2, H0673: 2, H0124: 2, H0413: 2, H0561: 2, S0438: 2, L0371: 2, L0772: 2, L0662: 2, L0776: 2, L0528: 2, H0593: 2, H0684: 2, H0435: 2, H0659: 2, S0328: 2, H0521: 2, S3014: 2, L0748: 2, L0740: 2, L0745: 2, L0750: 2, L0780: 2, L0757: 2, H0445: 2, H0668: 2, H0136: 2, H0216: 2, H0422: 2, H0265: 1, S0114: 1, H0650: 1, S0110: 1,					
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				S0026: 5, H0661: 4, H0638: 4, H0581: 4, H0052: 4, H0032: 4, L0598: 4, L0770: 4, L0649: 4, H0144: 4, H0547: 4, H0659: 4, S0360: 3, L0471: 3, S6028: 3, S0214: 3, L0483: 3, H0553: 3, H0038: 3, L0769: 3, L0764: 3, L0774: 3, L0659: 3, L0666: 3, H0436: 3, L0744: 3, L0599: 3, S0196: 3, H0713: 2, S0116: 2, S0408: 2, H0632: 2, H0013: 2, S0474: 2, L0163: 2, T0010: 2, H0510: 2, H0375: 2, H0271: 2, H0615: 2, H0617: 2, S0036: 2, H0090: 2, H0616: 2, T0041: 2, H0494: 2, S0438: 2, S0344: 2, L0662: 2, L0768: 2, L0776: 2, L0665: 2, H0723: 2, H0520: 2, H0519: 2, S0328: 2, S0330: 2, S0028: 2, L0748: 2, L0779: 2,			
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L0753: 2, L0758: 2, L0597: 2, L0592: 2, L0485: 2, H0543: 2, H0422: 2, H0677: 2, H0624: 1, H0171: 1, H0556: 1, S0040: 1, H0716: 1, H0657: 1, H0669: 1, S0420: 1, S0442: 1, S0358: 1, S0444: 1, H0580: 1, H0208: 1, S0045: 1, H0645: 1, L0717: 1, H0351: 1, H0549: 1, H0550: 1, S0222: 1, H0431: 1, H0614: 1, H0455: 1, H0587: 1, T0040: 1, T0060: 1, H0427: 1, S0280: 1, H0706: 1, H0421: 1, S0049: 1, H0544: 1, H0545: 1, H0150: 1, H0569: 1, H0050: 1, H0373: 1, N0007: 1, H0201: 1, S0051: 1, S0318: 1, S0334: 1, H0687: 1, S0312: 1, H0428: 1, T0006: 1, H0031: 1, H0644: 1, H0212: 1, S0364: 1, L0455: 1, H0708: 1,					
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				H0591: 1, H0040: 1, T0067: 1, H0379: 1, H0264: 1, H0488: 1, T0069: 1, T0004: 1, S0038: 1, H0641: 1, H0646: 1, S0144: 1, H0538: 1, S0210: 1, S0422: 1, S0002: 1, S0426: 1, UNKWN: 1, H0529: 1, L0763: 1, L0371: 1, L0637: 1, L0761: 1, L0630: 1, L0372: 1, L0646: 1, L0771: 1, L0773: 1, L0364: 1, L0803: 1, L0651: 1, L0806: 1, L0655: 1, L0661: 1, L0657: 1, L0526: 1, L0809: 1, L0544: 1, L0663: 1, S0148: 1, S0310: 1, L0352: 1, H0593: 1, S0126: 1, H0435: 1, H0670: 1, H0648: 1, H0539: 1, L0602: 1, H0696: 1, S0044: 1, H0555: 1, H0478: 1, L0743: 1, L0751: 1, L0745: 1, L0755: 1; H0445: 1, S0308: 1, S0394: 1,				
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HCRQL51	1022997	584	47 - 1030	2759	Ser-35 to Gly-40, Ser-103 to His-109, Tyr-151 to Gly-159, Pro-216 to Glu-224, Asn-249 to Trp-258, Pro-278 to Glu-284.	L0480: 1, L0362: 1, S0106: 1, S0192: 1, S0242: 1, H0542: 1, H0423: 1, S0424: 1 and S0446: 1. H0013: 10, H0644: 6, H0144: 6, H0615: 5, L0748: 4, L0777: 4, H0393: 3, T0114: 3, H0012: 3, H0024: 3, H0529: 3, L0438: 3, H0547: 3, L0439: 3, H0624: 2, H0170: 2, H0341: 2, L0005: 2, H0370: 2, H0050: 2, L0471: 2, H0031: 2, H0038: 2, L0750: 2, L0758: 2, H0595: 2, L0592: 2, H0171: 1, S0212: 1, S0418: 1, S0356: 1, H0619: 1, L0717: 1, S0222: 1, H0427: 1, H0036: 1, H0046: 1, H0620: 1, H0594: 1, H0266: 1, H0328: 1, L0142: 1, H0591: 1, H0616: 1, H0059: 1, H0625: 1, S0210: 1, L0768: 1, H0520: 1, H0519: 1,	7q32	180105, 190900, 222800, 246900
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								H0672: 1, S0152: 1, H0555: 1, L0742: 1, L0779: 1, H0445: 1, S0194: 1, H0422: 1 and L0698: 1.			
HDTCC55	1023046	585	195 - 533	2760	Ser-26 to Ser-32.			H0486: 1 and L0766: 1.			
HOOIQ91	1023049	586	1307 - 525	2761	Ala-2 to Thr-9.						
HCE4K28	1023227	587	238 - 840	2762	Phe-15 to Gly-29.			L0750: 6, L0766: 5, L0809: 4, L0747: 4, L0758: 4, S0354: 3, H0617: 3, L0775: 3, L0783: 3, H0690: 3, S0406: 3, L0753: 3, L0601: 3, H0255: 2, S0007: 2, H0618: 2, H0253: 2, H0309: 2, H0150: 2, H0428: 2, H0553: 2, H0494: 2, L0770: 2, L0771: 2, L0803: 2, L0774: 2, L0666: 2, S0330: 2, H0539: 2, H0134: 2, L0777: 2, L0592: 2, H0624: 1, H0686: 1, H0664: 1, S0408: 1, H0489: 1, H0580: 1, H0351: 1, S0278: 1, H0333: 1, H0559: 1, S0474: 1, H0052: 1,			

HPDVY62	1023264	588	2 - 1126	2763			H0545: 1, T0003: 1, H0124: 1, H0634: 1, H0087: 1, H0477: 1, H0412: 1, L0763: 1, L0769: 1, L0761: 1, L0767: 1, L0804: 1, L0806: 1, L0805: 1, L0659: 1, L0787: 1, L0791: 1, H0547: 1, S0126: 1, H0658: 1, H0670: 1, S0328: 1, S0380: 1, H0521: 1, H0522: 1, L0742: 1, L0744: 1, L0748: 1, L0779: 1, L0731: 1, L0759: 1, L0589: 1, L0581: 1, H0665: 1, S0276: 1 and H0352: 1.			
							H0624: 2, H0586: 2, H0031: 2, L0748: 2, L0439: 2, H0171: 1, S0356: 1, S0376: 1, H0052: 1, H0251: 1, H0050: 1, H0014: 1, H0051: 1, H0647: 1, L0789: 1, H0144: 1, H0658: 1, H0521: 1, L0754: 1, L0752: 1, S0436: 1, S0276: 1 and S0424: 1.	10q26.13- q26.3	263700	

HLHDK42	1023339	589	1 - 351	2764	Asn-19 to Asp-29, Leu-34 to Gly-41.	H0024: 2 and H0596: 1.		
HLDRQ55	1023375	590	2 - 421	2765		H0081: 1, H0510: 1 and H0144: 1.		
HVVBI06	1023414	591	1449 - 646	2766		H0543: 7, H0341: 6, S0003: 5, L0740: 5, L0747: 5, H0619: 4, H0575: 4, H0318: 4, S0206: 4, L0750: 4, L0588: 4, H0542: 4, H0265: 3, S0358: 3, S0046: 3, H0486: 3, H0069: 3, S0022: 3, L0666: 3, H0556: 2, S0116: 2, S0212: 2, S0418: 2, S0376: 2, S0360: 2, S0132: 2, H0497: 2, L0471: 2, H0090: 2, H0551: 2, H0494: 2, H0633: 2, S0144: 2, H0529: 2, L0662: 2, L0655: 2, L0664: 2, H0144: 2, H0547: 2, S0152: 2, L0757: 2, H0445: 2, H0624: 1, S6024: 1, S0114: 1, S0134: 1, S0218: 1, H0650: 1, H0657: 1, H0656: 1, H0663: 1, H0662: 1,	X	

S0420: 1, H0580: 1, S0007: 1, H0393: 1, H0441: 1, H0331: 1, H0574: 1, T0039: 1, T0114: 1, H0427: 1, H0004: 1, H0581: 1, H0052: 1, H0251: 1, H0184: 1, T0115: 1, H0046: 1, H0009: 1, H0050: 1, H0620: 1, H0024: 1, H0373: 1, H0510: 1, S6028: 1, H0266: 1, H0267: 1, S0318: 1, S0316: 1, H0028: 1, S0214: 1, H0328: 1, H0428: 1, H0031: 1, H0644: 1, H0628: 1, H0169: 1, H0598: 1, H0038: 1, H0616: 1, H0380: 1, H0272: 1, H0412: 1, S0150: 1, H0647: 1, H0646: 1, S0344: 1, S0210: 1, S0422: 1, S0002: 1, L0769: 1, L0372: 1, L0646: 1, L0649: 1, L0774: 1, L0775: 1, L0438: 1, H0519: 1, S0126: 1, H0660: 1, H0666: 1,
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HOCME51	1023422	592	2 - 319	2767	Glu-36 to Thr-44, His-72 to Tyr-78, Glu-82 to Tyr-88.	H0672: 1, S0380: 1, L0602: 1, H0134: 1, S0390: 1, S3014: 1, S0027: 1, S0028: 1, L0748: 1, L0439: 1, L0754: 1, L0749: 1, L0756: 1, L0731: 1, H0444: 1, H0595: 1, L0595: 1, L0361: 1, L0603: 1, H0667: 1, H0422: 1 and S0424: 1.		
						H0623: 4, H0046: 3, H0581: 2, H0023: 2, H0083: 2, L0791: 2, L0438: 2, H0547: 2, H0539: 2, L0750: 2, H0583: 1, H0341: 1, H0125: 1, S0420: 1, S0356: 1, H0208: 1, S0045: 1, H0261: 1, S0222: 1, H0592: 1, H0635: 1, H0318: 1, H0052: 1, L0163: 1, H0266: 1, H0494: 1, L0475: 1, H0538: 1, L3904: 1, S0374: 1, H0660: 1, H0522: 1, H0134: 1, S0028: 1, S0206: 1, L0439: 1, L0753: 1, L0595: 1,		

HPDOP74	1023531	593	1659 - 307	2768	Leu-23 to Asp-31, Gln-46 to Ile-69, Ile-120 to Lys-128, Pro-148 to Asp-154, Pro-216 to Val-223, Asn-261 to Ala-273, Gly-290 to Gln-299, Lys-305 to Tyr-312, Glu-341 to Ala-346, Pro-394 to Met-404, Ser-418 to Ser-440, Glu-442 to Gly-450.	H0542: 1, H0543: 1 and H0506: 1.  L0591: 11, H0069: 9, H0494: 9, L0588: 7, H0543: 7, H0657: 6, H0318: 6, T0042: 6, H0547: 6, H0556: 5, L0665: 5, L0751: 5, H0423: 5, T0002: 4, H0050: 4, L0747: 4, L0779: 4, H0341: 3, H0638: 3, H0580: 3, H0393: 3, H0052: 3, H0266: 3, H0617: 3, H0616: 3, H0413: 3, H0521: 3, L0754: 3, L0596: 3, L0362: 3, H0422: 3, H0265: 2, L0470: 2, H0305: 2, H0637: 2, S0045: 2, H0370: 2, T0109: 2, H0156: 2, H0599: 2, H0575: 2, H0036: 2, H0618: 2, H0253: 2, L0483: 2, H0181: 2, H0038: 2, H0561: 2, H0646: 2, L0770: 2, L0769: 2, L0646: 2, L0521: 2, L0662: 2, L0768: 2, L0803: 2,		
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HMSOH12	1023545	594	1 - 1077	2769	Lys-25 to Asp-31, His-46 to Glu-54, Ser-80 to Lys-86, Val-109 to Lys-115, Arg-143 to Met-149, Lys-193 to Arg-198, His-253 to Gly-259.	H0707: 1, L0592: 1, H0653: 1, H0665: 1, S0276: 1 and S0424: 1.  L0731: 12, L0439: 10, L0747: 8, L0770: 7, L0662: 6, L0775: 5, L0663: 5, H0423: 5, L0769: 4, L0752: 4, H0422: 4, H0657: 3, H0656: 3, S0356: 3, S0360: 3, S0222: 3, H0318: 3, H0083: 3, L0764: 3, L0768: 3, L0766: 3, L0809: 3, L0665: 3, H0547: 3, H0682: 3, H0659: 3, H0672: 3, L0750: 3, L0588: 3, L0591: 3, S0007: 2, H0581: 2, H0644: 2, H0412: 2, S0002: 2, S0426: 2, L0648: 2, L0364: 2, L0774: 2, L0375: 2, L0655: 2, L0666: 2, L0664: 2, H0520: 2, H0435: 2, H0666: 2, H0651: 2, H0521: 2, S0027: 2, L0740: 2, L0755: 2, L0757: 2, L0758: 2, H0542: 2,		
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HOPJG50	1023584	595	866 - 507	2770		Thr-18 to Asn-31, Lys-39 to Ser-47, Ser-71 to His-76, Gln-113 to Lys-120.		L0748: 2, L0749: 2, L0731: 2, H0624: 1, H0486: 1, H0309: 1, L0769: 1, L0653: 1, H0684: 1 and L0779: 1.	4			
HDUAB04	1023585	596	3 - 371	2771		Thr-21 to Asn-34, Lys-42 to Ser-50, Ser-74 to His-79, Gln-116 to Lys-123.			4			
HVCAA38	1023632	597	27 - 818	2772		Asn-12 to Thr-17, Gln-60 to Arg-66, Ser-71 to Asn-83, Thr-89 to Ala-96, Gln-120 to Thr-126, Glu-149 to Lys-154, Thr-213 to Ser-219, Arg-231 to Tyr-244, Trp-252 to Trp-259.			22q12.1	123620, 188826, 600850, 601669		
HIBCN87	1023837	598	1753 - 776	2773		Arg-1 to Cys-7, Val-96 to Arg-105, Glu-130 to Leu-135, Pro-207 to Arg-225, Asp-231 to Cys-251, Pro-259 to Ile-264,		L0439: 8, L0794: 5, L0758: 5, L0805: 4, L0809: 4, S0358: 3, L0769: 3, L0776: 3, L0665: 3, L0438: 3, H0658: 3, L0717: 2,	22q13.1	103050, 103050, 124030, 124030, 138981, 182380,		

					Pro-294 to Pro-304, Glu-310 to Ile-316, Ser-320 to Pro-326.	H0052: 2, H0059: 2, L0662: 2, L0803: 2, L0789: 2, H0690: 2, L0748: 2, H0556: 1, S0114: 1, H0583: 1, S0376: 1, H0600: 1, H0618: 1, H0253: 1, T0010: 1, H0252: 1, H0617: 1, H0038: 1, H0100: 1, L0520: 1, L0761: 1, L0768: 1, L0766: 1, L0783: 1, L0666: 1, L0663: 1, H0547: 1, H0593: 1, H0683: 1, H0670: 1, H0648: 1, H0436: 1, L0751: 1, L0755: 1, H0445: 1 and H0352: 1.		188826, 190040, 190040, 190040
HPCOM04	1024000	599	36 - 818	2774	Arg-1 to Gln-7, Pro-18 to Leu-23, Asp-42 to Ile-47, Gln-56 to Glu-63, Glu-93 to Ile-105, Glu-132 to Leu-137, Ile-202 to Leu-208, Asn-220 to Lys-226, Asn-254 to Phe-259.	L0438: 3, L0764: 2, H0659: 2, L0754: 2, H0589: 1, H0580: 1, H0013: 1, H0622: 1, H0617: 1, T0067: 1, L0767: 1, L0775: 1, L0655: 1, L0659: 1, L0666: 1, H0648: 1, S0330: 1, H0710: 1, L0748: 1, L0740: 1, L0747: 1, L0753: 1, L0480: 1 and L0599: 1.	22q11.1	231950, 600850

HUCPU06	1024069	600	609 - 313	2775		L0766: 5, L0770: 2, L0803: 2, L0666: 2, L0747: 2, L0603: 2, H0686: 1, S0420: 1, L0662: 1, L0794: 1, L0783: 1, L0383: 1, L0809: 1, L0665: 1, H0684: 1, H0658: 1 and L0750: 1.		
HPAME01	1024332	601	564 - 1061	2776	Cys-1 to Gln-6, Val-19 to Ala-24.	L0439: 12, L0743: 5, L0747: 5, L0749: 5, L0769: 4, L0794: 4, L0731: 4, L0803: 3, L0774: 3, L0809: 3, H0254: 2, H0393: 2, H0318: 2, H0052: 2, H0188: 2, H0040: 2, L0659: 2, L0790: 2, L0438: 2, L0753: 2, H0423: 2, H0265: 1, H0685: 1, H0341: 1, H0402: 1, S0360: 1, H0580: 1, L0717: 1, H0550: 1, H0370: 1, H0333: 1, H0643: 1, H0486: 1, H0013: 1, H0250: 1, H0599: 1, H0042: 1, H0253: 1, H0327: 1, H0046: 1, H0086: 1, H0012: 1,		

HTTJS76	1024472	602	3 - 392	2777	Pro-1 to His-22, Lys-45 to Arg-59, Asp-77 to Pro-88, Ser-109 to Glu-119.	S0051: 1, H0399: 1, H0687: 1, H0286: 1, H0617: 1, H0032: 1, H0673: 1, S0036: 1, H0135: 1, H0591: 1, H0087: 1, H0100: 1, T0041: 1, H0494: 1, H0561: 1, H0130: 1, L0638: 1, L0764: 1, L0662: 1, L0804: 1, L0651: 1, L0657: 1, L0783: 1, L0666: 1, L0664: 1, L0665: 1, L0352: 1, H0547: 1, H0519: 1, H0682: 1, H0684: 1, H0521: 1, S0044: 1, H0631: 1, S0206: 1, L0754: 1, L0779: 1, L0780: 1, L0597: 1, H0543: 1, H0422: 1 and H0506: 1. L0740: 15, L0754: 7, L0747: 6, L0777: 6, L0662: 5, H0539: 5, L0439: 5, L0758: 5, L0438: 4, L0748: 4, S0444: 3, H0031: 3, H0553: 3, L0770: 3, L0774: 3, L0749: 3, L0756: 3, L0755: 3,		
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L0757: 3, S0300: 2, H0427: 2, H0046: 2, H0123: 2, H0264: 2, H0413: 2, L0646: 2, L0794: 2, L0663: 2, H0547: 2, H0672: 2, L0744: 2, L0779: 2, L0731: 2, L0362: 2, S0040: 1, H0713: 1, S0400: 1, S0354: 1, S0358: 1, S0376: 1, S0408: 1, H0722: 1, S0045: 1, S0476: 1, H0393: 1, S0222: 1, H0643: 1, S0280: 1, H0156: 1, L0105: 1, T0048: 1, H0230: 1, H0052: 1, H0251: 1, H0545: 1, L0157: 1, H0014: 1, S6028: 1, S0036: 1, H0634: 1, H0616: 1, H0551: 1, T0067: 1, L0598: 1, L0637: 1, L0764: 1, L0773: 1, L0521: 1, L0533: 1, L0804: 1, L0806: 1, L0776: 1, L0657: 1, L0634: 1, L0659: 1, L0783: 1, L0809: 1, L0666: 1,					
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HCORI57	1024556	603	230 - 1237	2778				H0519: 1, S0126: 1, H0689: 1, H0658: 1, H0666: 1, H0648: 1, H0651: 1, S0328: 1, S0152: 1, S0350: 1, H0521: 1, H0696: 1, S0146: 1, L0750: 1, L0752: 1, L0759: 1, H0445: 1, L0684: 1, L0686: 1, S0434: 1, S0436: 1, L0599: 1, L0361: 1 and S0106: 1.			148370, 238600, 238600, 238600, 238600, 238600, 600143, 601385, 602629
								H0553: 9, H0624: 4, L0471: 4, H0619: 3, H0494: 3, H0520: 3, H0547: 3, S0126: 3, L0755: 3, H0013: 2, H0031: 2, H0644: 2, H0040: 2, L0659: 2, L0666: 2, L0665: 2, H0144: 2, H0519: 2, H0670: 2, L0780: 2, L0361: 2, S0026: 2, H0171: 1, H0661: 1, S0360: 1, H0244: 1, H0156: 1, L0021: 1, S0010: 1, H0052: 1, H0046: 1, L0163: 1, S0214: 1, L0142: 1, H0032: 1, H0551: 1,	8p22		



HNORG50	1024624	604	2 - 1120	2779	Ile-1 to Gln-18, Lys-69 to Gln-74, Ala-81 to Arg-86, Lys-102 to Lys-107, Glu-146 to Val-153, His-156 to Ile-161, Glu-195 to Ser-207, Asp-306 to Leu-316, Ala-318 to Gly-333, Gln-346 to Asp-352.	H0059: 1, L0598: 1, L0520: 1, L0769: 1, L0637: 1, L0768: 1, L0803: 1, L0804: 1, L0653: 1, L0657: 1, L0383: 1, H0690: 1, H0435: 1, H0658: 1, S0330: 1, H0518: 1, S0152: 1, S0044: 1, S0027: 1, L0754: 1, L0747: 1, L0750: 1, L0731: 1, L0608: 1, L0593: 1, L0594: 1 and H0667: 1.		
						L0601: 25, S0474: 22, H0521: 17, S0278: 16, H0542: 14, H0543: 13, L0596: 11, H0580: 10, H0494: 10, H0575: 8, L0659: 8, H0581: 7, H0559: 6, H0031: 6, L0655: 6, S3014: 6, S0027: 6, L0591: 6, H0657: 5, S0358: 5, S0360: 5, H0457: 5, H0529: 5, L0666: 5, S0152: 5, L0748: 5, L0731: 5, H0583: 4, H0650: 4, H0587: 4, H0318: 4, H0040: 4,		

S0144: 4, S0142: 4, L0646: 4, L0657: 4, S0380: 4, H0522: 4, L0439: 4, H0445: 4, H0423: 4, H0295: 3, H0656: 3, H0638: 3, S0046: 3, H0052: 3, H0083: 3, H0266: 3, H0553: 3, H0644: 3, H0551: 3, H0264: 3, H0059: 3, S0440: 3, S0002: 3, L0761: 3, L0649: 3, L0664: 3, S0126: 3, H0689: 3, H0672: 3, L0755: 3, H0422: 3, L0600: 3, H0624: 2, H0265: 2, H0556: 2, S0114: 2, S0134: 2, H0341: 2, H0402: 2, H0637: 2, S0045: 2, H0550: 2, H0392: 2, H0586: 2, H0250: 2, H0545: 2, H0050: 2, H0424: 2, H0413: 2, H0561: 2, H0641: 2, S0344: 2, S0426: 2, L0369: 2, L0770: 2, L0769: 2, L0662: 2, L0766: 2, L0375: 2, L0378: 2,					
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L0653: 2, L0635: 2, L0382: 2, H0702: 2, H0659: 2, S0350: 2, S0037: 2, L0740: 2, L0754: 2, L0747: 2, S0434: 2, S0196: 2, H0585: 1, H0294: 1, T0049: 1, S0116: 1, S0212: 1, H0484: 1, H0255: 1, H0306: 1, H0305: 1, H0459: 1, S0418: 1, S0420: 1, L0562: 1, S0442: 1, S0354: 1, S0376: 1, S0140: 1, H0370: 1, H0613: 1, H0642: 1, H0257: 1, H0492: 1, H0486: 1, H0635: 1, H0002: 1, H0599: 1, H0706: 1, H0421: 1, S0049: 1, T0110: 1, H0041: 1, L0157: 1, H0023: 1, H0051: 1, S0051: 1, H0107: 1, H0375: 1, H0179: 1, H0271: 1, S0214: 1, H0039: 1, H0622: 1, H0628: 1, H0617: 1, H0090: 1, H0087: 1, H0488: 1, H0412: 1,
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T0042: 1, H0280: 1, H0560: 1, H0509: 1, H0646: 1, H0538: 1, L0762: 1, L0638: 1, L0637: 1, L0372: 1, L0642: 1, L0643: 1, L0773: 1, L0648: 1, L0363: 1, L0794: 1, L0381: 1, L0804: 1, L0774: 1, L0775: 1, L0806: 1, L0805: 1, L0776: 1, L0383: 1, L0663: 1, H0144: 1, H0697: 1, S0374: 1, H0691: 1, L0438: 1, H0519: 1, H0690: 1, H0682: 1, H0684: 1, H0435: 1, H0658: 1, H0648: 1, S0328: 1, H0539: 1, H0518: 1, S0044: 1, H0134: 1, H0214: 1, H0555: 1, H0627: 1, S0432: 1, S3012: 1, S0028: 1, S0032: 1, L0743: 1, L0749: 1, L0779: 1, L0777: 1, L0757: 1, L0597: 1, L0599: 1, L0608: 1, H0665: 1, S0194: 1 and S0424: 1.					
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HWLVR07	1024915	605	687 - 328	2780	Lys-28 to Thr-33, Asn-35 to Lys-53, Ala-98 to Glu-104.			
HOPKF60	1025047	606	1132 - 197	2781	Glu-41 to Lys-46, Ser-49 to Glu-55, Asp-109 to Arg-114, His-133 to Asp-138, Arg-170 to Glu-181, Ala-246 to Pro-254, Lys-282 to Ser-287, Ala-296 to Asp-302.	S0358: 10, H0584: 9, S0420: 8, L0439: 8, H0543: 8, H0250: 7, H0618: 7, L0601: 7, S0046: 6, H0424: 6, H0251: 5, H0046: 5, L0438: 5, H0435: 5, H0136: 5, S0045: 4, H0599: 4, H0494: 4, H0561: 4, H0547: 4, H0539: 4, L0748: 4, L0751: 4, S0212: 3, S0007: 3, H0486: 3, H0706: 3, H0253: 3, H0545: 3, S0036: 3, H0040: 3, H0551: 3, H0264: 3, H0132: 3, H0529: 3, H0144: 3, H0520: 3, H0448: 3, H0445: 3, H0665: 3, H0423: 3, H0677: 3, H0624: 2, S0040: 2, H0341: 2, H0484: 2, H0125: 2, S0360: 2, S0222: 2, H0586: 2, H0497: 2, H0575: 2, H0318: 2, H0052: 2,		

H0059: 2, T0042: 2, S0440: 2, H0641: 2, S0210: 2, S0002: 2, S0126: 2, H0689: 2, H0666: 2, H0521: 2, S0027: 2, L0752: 2, S0434: 2, H0422: 2, S0042: 2, S0424: 2, H0170: 1, H0171: 1, H0556: 1, T0002: 1, H0218: 1, H0161: 1, H0686: 1, S0342: 1, H0716: 1, H0295: 1, H0294: 1, H0656: 1, H0483: 1, H0661: 1, H0458: 1, H0638: 1, H0192: 1, S0356: 1, S0442: 1, S0376: 1, S0444: 1, H0675: 1, H0580: 1, S0468: 1, H0208: 1, H0393: 1, L0717: 1, S0278: 1, H0261: 1, H0550: 1, S6014: 1, H0370: 1, H0592: 1, H0333: 1, H0559: 1, H0256: 1, H0485: 1, T0040: 1, L0586: 1, H0069: 1, H0075: 1, H0042: 1, H0581: 1, H0121: 1.					
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	H0041: 1, H0123: 1, H0050: 1, H0012: 1, H0620: 1, H0014: 1, L0163: 1, H0051: 1, S0051: 1, T0010: 1, H0083: 1, H0266: 1, H0179: 1, H0271: 1, H0292: 1, H0286: 1, S0022: 1, H0039: 1, H0553: 1, H0628: 1, H0617: 1, H0383: 1, H0598: 1, H0135: 1, H0087: 1, H0380: 1, H0412: 1, H0413: 1, H0056: 1, H0100: 1, T0041: 1, S0015: 1, H0625: 1, S0464: 1, S0294: 1, S0438: 1, H0509: 1, H0130: 1, H0646: 1, H0652: 1, S0344: 1, S0374: 1, L0565: 1, T0068: 1, H0693: 1, H0519: 1, H0593: 1, H0684: 1, H0658: 1, H0670: 1, H0660: 1, H0518: 1, S0332: 1, H0522: 1, H0694: 1, H0555: 1, H0479: 1, H0447: 1, H0626: 1, S3014: 1,				
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HBDAD74	1025102	607	2 - 406	2782	Gly-22 to Glu-28, Glu-42 to Arg-60, Leu-67 to Glu-89, Asp-106 to Thr-118, Gln-120 to Ile-130.	S0028: 1, L0743: 1, L0744: 1, L0754: 1, L0745: 1, L0747: 1, L0755: 1, L0757: 1, L0759: 1, H0595: 1, L0596: 1, L0592: 1, L0608: 1, L0593: 1, H0668: 1, H0653: 1, H0542: 1, H0506: 1 and H0352: 1.		
						L0766: 7, L0803: 4, L0779: 3, H0421: 2, H0615: 2, L0382: 2, L0748: 2, L0777: 2, L0002: 1, S0116: 1, H0638: 1, S0358: 1, H0393: 1, S6022: 1, H0431: 1, H0586: 1, H0486: 1, H0427: 1, S0474: 1, H0327: 1, H0057: 1, H0428: 1, S0036: 1, L0351: 1, H0538: 1, L0638: 1, L0667: 1, L0653: 1, L0659: 1, L0809: 1, H0693: 1, L0438: 1, H0547: 1, S0146: 1, H0626: 1, L0746: 1, L0756: 1, L0752: 1, L0731: 1, L0758: 1,		



HPCTY12	1025231	608	68 - 1225	2783	Ala-1 to Ser-8.	S0308: 1, H0595: 1, L0596: 1 and L0599: 1. L0805: 3, H0657: 2, L0769: 2, L0766: 2, L0659: 2, L0809: 2, L0789: 2, L0665: 2, L0565: 2, H0659: 2, L0749: 2, L0777: 2, L0755: 2, L0596: 2, H0685: 1, H0583: 1, H0650: 1, H0656: 1, H0663: 1, S0420: 1, S0356: 1, H0619: 1, L0717: 1, H0586: 1, H0251: 1, H0050: 1, H0622: 1, H0135: 1, H0038: 1, H0551: 1, H0272: 1, H0561: 1, H0509: 1, L0637: 1, L0646: 1, L0794: 1, L0387: 1, L0776: 1, L0655: 1, L0657: 1, L0636: 1, L0666: 1, L0664: 1, H0520: 1, H0547: 1, H0519: 1, H0672: 1, L0593: 1, H0667: 1 and H0352: 1.	12q12-q13	107777, 123940, 139350, 139350, 148040, 148041, 148043, 148070, 231550, 600194, 600231, 600536, 600808, 600956, 601284, 601769, 601769, 601928, 602116, 602153
HFASF12	1025327	609	103 - 201	2784	Pro-19 to Cys-28.	L0747: 4, L0757: 4, L0759: 4, L0770: 3, L0769: 2, L0659: 2,		

HLIBM71	1025359	610	147 - 617	2785	Ser-26 to Ile-35.	H0691: 2, L0750: 2, S0116: 1, H0638: 1, S0300: 1, H0587: 1, L0021: 1, S0474: 1, H0529: 1, L0762: 1, L0764: 1, L0768: 1, L0775: 1, L0776: 1, L0634: 1, L0783: 1, L0663: 1, H0689: 1, H0521: 1, S0027: 1, L0748: 1, L0777: 1, L0752: 1, L0755: 1, L0731: 1, H0445: 1 and H0423: 1.		
						H0556: 4, H0253: 4, H0620: 4, L0731: 3, S0212: 2, H0052: 2, H0124: 2, L0766: 2, L0809: 2, L0565: 2, S0126: 2, S0328: 2, L0603: 2, H0739: 1, S0114: 1, S0218: 1, H0657: 1, S0116: 1, H0638: 1, S0420: 1, S0045: 1, S0046: 1, S0278: 1, H0549: 1, H0550: 1, H0250: 1, H0156: 1, L0738: 1, H0327: 1, H0544: 1, L0471: 1, H0083: 1.		

HNOKW27	1025366	611	3 - 701	2786	Phe-9 to Trp-14, Arg-125 to Asp-148, Ser-156 to Asp-163, Pro-206 to His-211.	H0355: 1, H0416: 1, H0428: 1, L0483: 1, H0181: 1, H0617: 1, H0032: 1, S0364: 1, H0063: 1, H0087: 1, H0264: 1, H0100: 1, H0494: 1, H0560: 1, L0065: 1, H0132: 1, H0131: 1, S0150: 1, H0647: 1, L0770: 1, L0769: 1, L0772: 1, L0764: 1, L0662: 1, L0387: 1, L0657: 1, L0658: 1, L0541: 1, S0052: 1, H0547: 1, H0539: 1, S0406: 1, H0478: 1, H0727: 1, H0732: 1, S0032: 1, L0439: 1, L0740: 1, L0747: 1, L0779: 1, L0755: 1, L0757: 1, L0758: 1, L0759: 1, S0434: 1, S0436: 1, L0581: 1, L0595: 1, H0665: 1, H0423: 1 and S0446: 1.		
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HPFDG48	1025526	612	461 - 303	2787		AR089: 2, AR039: 2, AR104: 2, AR053: 2, AR096: 2, AR060: 1, AR033: 1, AR061: 1, AR055: 1 L0748: 6, H0169: 1, S0428: 1, S0136: 1, L0754: 1 and L0749: 1.	Xp11.23- p11.22	300008, 300008, 300008, 300008, 300047, 300071, 300110, 300600, 301000, 301000, 301830, 309470, 309500, 309610, 309850, 311050, 312060
HVVBF24	1025712	613	49 - 1296	2788	Ser-1 to Gly-18, Trp-25 to Gly-31, Arg-46 to Ser-52, Ala-103 to Ala-108, Ser-154 to Gly-165, Gln-228 to Pro-236, Ser-284 to Gly-291, Ala-321 to Asp-327, Lys-377 to Asn-394, Asp-406 to Ser-416.	AR089: 13, AR060: 5, AR096: 5, AR104: 5, AR061: 2, AR055: 1 S0152: 12, S0356: 10, H0551: 6, H0423: 6, S0212: 5, H0090: 5, H0667: 5, S0358: 4, H0620: 4, H0622: 4, H0591: 4, L0794: 4, S0380: 4, L0731: 4, L0588: 4, S0242: 4, S0360: 3, S0474: 3, H0581: 3, S0126: 3,		

	H0436: 3, S0028: 3, L0756: 3, H0445: 3, S0192: 3, S0196: 3, H0656: 2, S0116: 2, S0442: 2, S0376: 2, S0046: 2, H0549: 2, H0098: 2, H0014: 2, S0003: 2, H0560: 2, H0641: 2, H0529: 2, L0766: 2, H0520: 2, H0519: 2, H0666: 2, L0602: 2, H0478: 2, L0740: 2, L0751: 2, L0754: 2, S0434: 2, L0595: 2, H0542: 2, H0543: 2, H0624: 1, H0170: 1, S0040: 1, S0402: 1, S0134: 1, H0341: 1, H0661: 1, H0663: 1, H0449: 1, H0638: 1, S0045: 1, S0140: 1, L0717: 1, H0411: 1, S0222: 1, H0497: 1, H0486: 1, T0040: 1, H0244: 1, H0427: 1, H0004: 1, H0596: 1, H0566: 1, L0163: 1, H0051: 1, S0051: 1, T0079: 1, H0375: 1, H0060: 1,				
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HE8UF88	1025745	614	4207 -	2789	Ala-8 to Arg-14,	S0250: 1, H0615: 1, H0029: 1, H0553: 1, H0644: 1, H0032: 1, H0169: 1, H0316: 1, H0038: 1, H0040: 1, H0634: 1, H0063: 1, T0067: 1, H0477: 1, H0488: 1, H0623: 1, H0494: 1, H0625: 1, L0065: 1, S0438: 1, H0509: 1, S0142: 1, L0770: 1, L0646: 1, L0662: 1, L0653: 1, L0776: 1, L0659: 1, L0526: 1, L0666: 1, S0374: 1, H0693: 1, H0547: 1, H0682: 1, H0435: 1, H0658: 1, H0660: 1, H0648: 1, H0672: 1, S0328: 1, H0710: 1, H0518: 1, H0579: 1, H0704: 1, H0555: 1, S0390: 1, S0037: 1, S0027: 1, L0439: 1, L0747: 1, L0752: 1, L0759: 1, H0444: 1, H0595: 1, L0362: 1, S0011: 1, S0194: 1 and S0384: 1.		
						H0547: 10, H0013: 9,		

					Ile-64 to Thr-69, Val-94 to Asp-101, His-112 to Gln-117, Tyr-139 to Glu-145, Tyr-195 to Cys-208, Gly-216 to Gly-223, Asp-297 to Ser-307, Gly-378 to Leu-383, Ile-391 to Pro-404, Asn-451 to Ser-466.	L0758: 8, L0771: 6, L0747: 6, S0422: 5, L0770: 5, H0341: 4, S0356: 4, H0486: 4, H0251: 4, H0038: 4, H0040: 4, T0041: 4, L0766: 4, S0152: 4, L0439: 4, H0171: 3, S0360: 3, S0046: 3, H0574: 3, H0024: 3, T0042: 3, S0440: 3, H0529: 3, H0670: 3, S0330: 3, H0539: 3, L0754: 3, L0749: 3, L0779: 3, H0624: 2, S0134: 2, H0583: 2, H0657: 2, S0116: 2, S0418: 2, S0354: 2, S0045: 2, H0318: 2, T0110: 2, H0046: 2, H0266: 2, S0003: 2, H0591: 2, H0634: 2, H0412: 2, H0561: 2, L0768: 2, L0806: 2, L0664: 2, H0144: 2, L0565: 2, H0519: 2, H0659: 2, H0672: 2, S0328: 2, S0378: 2, H0521: 2, H0696: 2, H0345: 2, L0741: 2,	
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HOUBC29	1025749	615	1558 - 1259	2790	Leu-11 to Gly-22, Ala-87 to Gly-96.			L0748: 2, L0745: 2, S0040: 1, H0637: 1, H0580: 1, H0553: 1 and L0761: 1.			
HOCYP47	1025965	616	71 - 1606	2791				L0758: 9, S0412: 8, L0749: 6, S0360: 5, H0038: 5, L0662: 5, L0751: 5, S0356: 3, H0618: 3, S0051: 3, H0616: 3, L0666: 3, L0743: 3, L0439: 3, L0731: 3, H0295: 2,			

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HOVKE20	1025990	617	3 - 824	2792	Gln-52 to Thr-58, Pro-105 to Asp-111, Arg-175 to Cys-182, Leu-221 to Val-227, Thr-257 to Gly-264, Ser-266 to Glu-271.	L0657: 1, L0544: 1, L0647: 1, H0435: 1, H0659: 1, H0658: 1, H0670: 1, H0660: 1, H0521: 1, H0696: 1, H0555: 1, H0478: 1, S0037: 1, S0027: 1, L0756: 1, L0777: 1, L0753: 1, H0445: 1, L0596: 1, L0591: 1, S0026: 1 and S0446: 1, H0618: 12, H0253: 11, 19p13 L0777: 8, L0755: 8, L0794: 6, L0659: 6, L0758: 6, S0192: 5, L0743: 4, S0418: 3, L0764: 3, S3014: 3, L0744: 3, S0420: 2, S0046: 2, S0132: 2, H0333: 2, H0486: 2, H0599: 2, T0023: 2, L0774: 2, L0375: 2, H0555: 2, L0754: 2, L0749: 2, L0756: 2, L0731: 2, H0265: 1, H0295: 1, S0298: 1, S0212: 1, H0255: 1, H0661: 1, S0358: 1, H0580: 1, H0645: 1, H0549: 1, H0497: 1,	601011, 601011, 601011, 601011, 601768, 601843
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HODGH47	1026139	618	398 - 1024	2793					H0492: 1, T0040: 1, H0505: 1, H0545: 1, H0150: 1, H0086: 1, H0123: 1, H0023: 1, H0024: 1, H0014: 1, H0051: 1, H0028: 1, H0615: 1, H0688: 1, H0424: 1, H0031: 1, H0617: 1, H0059: 1, H0494: 1, H0538: 1, L0769: 1, L0637: 1, L0667: 1, L0772: 1, L0804: 1, L0806: 1, L0526: 1, L0809: 1, S0330: 1, S0454: 1, S0027: 1, S0028: 1, L0741: 1, L0740: 1, L0747: 1, L0752: 1, L0757: 1, H0665: 1, S0042: 1 and H0506: 1.  H0666: 13, H0620: 7, L0731: 7, L0747: 6, L0659: 5, L0740: 5, L0750: 5, L0757: 5, S0360: 4, H0123: 4, S0022: 4, H0135: 4, L0666: 4, L0665: 4, S0028: 4, L0748: 4, L0777: 4, L0588: 4, S0420: 3, S0358: 3,	
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HODBK27	1026372	619	87 - 497	2794				H0328: 2, H0656: 1 and H0538: 1.				
HE8CH59	1026805	620	1889 - 2770	2795	Tyr-1 to Pro-8, Asp-21 to Lys-28, Arg-30 to Ile-38,			H0583: 2, L0744: 2, L0747: 2, H0650: 1, H0656: 1, S0356: 1,				

HSKGR52	1026911	621	2 - 625	2796	<p>Asn-71 to Gln-76, Val-85 to Pro-101, Ser-104 to Arg-111, His-123 to Arg-128, Glu-146 to Arg-152, Val-155 to Asp-271, Leu-274 to Gly-279, Ser-283 to Glu-290.</p> <p>Asn-53 to Arg-58, Asp-79 to Tyr-89, Pro-98 to Pro-108, Lys-195 to Lys-200.</p>	<p>H0013: 1, H0590: 1, H0581: 1, H0251: 1, H0266: 1, H0328: 1, H0615: 1, H0135: 1, H0488: 1, H0538: 1, L0521: 1, H0539: 1, H0522: 1, S0028: 1, L0366: 1 and H0677: 1.</p> <p>AR052: 91, AR096: 79, AR053: 69, AR039: 64, AR089: 46, AR060: 39, AR033: 35, AR104: 32, AR055: 14, AR061: 10 L0805: 22, L0794: 15, L0766: 12, L0747: 12, L0803: 11, L0740: 11, L0779: 11, L0776: 9, L0769: 7, H0521: 7, L0439: 7, L0731: 7, L0605: 7, S0474: 6, S0422: 6, L0752: 6, L0665: 5, L0748: 5, L0758: 5, H0618: 4, S0010: 4, L0771: 4, L0789: 4, S3014: 4, H0341: 3, H0615: 3, H0708: 3, L0763: 3, L0804: 3, L0659: 3, L0809: 3, S0052: 3,</p>		
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HMUAQ05	1026913	622	3 - 218	2797	Pro-2 to Pro-8.				S0354: 2, H0615: 2, L0591: 2, S0356: 1, S0442: 1, S0360: 1, S0222: 1, H0362: 1, H0156: 1, H0036: 1, H0012: 1, H0014: 1, S0051: 1, T0010: 1, H0529: 1, S0126: 1, L0439: 1, L0755: 1 and L0608: 1.				

HCOMA45	1026979	623	536 - 447	2798	Glu-13 to Gly-18.	H0662: 1, S0046: 1, H0658: 1 and H0670: 1.		
HE2KI45	1027007	624	3 - 1565	2799		L0803: 12, H0581: 8, 1 S0358: 6, H0046: 6, H0428: 6, S0356: 5, S0007: 5, H0031: 4, L0665: 4, H0271: 3, H0038: 3, L0794: 3, L0804: 3, L0666: 3, H0693: 3, S0406: 3, L0756: 3, L0758: 3, L0592: 3, S0116: 2, S0444: 2, H0431: 2, H0586: 2, H0486: 2, L0471: 2, H0615: 2, H0039: 2, S0036: 2, H0616: 2, S0422: 2, H0529: 2, L0770: 2, L0521: 2, L0662: 2, L0776: 2, L0787: 2, L0438: 2, H0670: 2, H0660: 2, S0328: 2, S0330: 2, H0436: 2, L0748: 2, L0755: 2, L0485: 2, L0599: 2, S0192: 2, H0423: 2, H0624: 1, S0342: 1, S0114: 1, H0650: 1, H0657: 1, H0638: 1, S0354: 1, S0360: 1,		

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HODDO66	1027207	625	2 - 136	2800				H0667: 3, S0222: 2, H0013: 2, L0438: 2, H0265: 1, H0583: 1, S0280: 1, H0036: 1, H0318: 1, L0471: 1, H0266: 1, H0328: 1, H0553: 1, S0364: 1, H0038: 1, H0040: 1, H0488: 1, L0796: 1, H0144: 1, H0684: 1 and H0423: 1.	2p11.2	178640, 216900	
HVVAT45	1027269	626	71 - 1117	2801		Pro-1 to Leu-8, Arg-41 to Gly-48, Ile-73 to Cys-80, Ala-137 to Tyr-144, Lys-193 to Ala-208, Leu-254 to Leu-259, Ala-317 to Ala-323, Glu-343 to Phe-349.					
HVCAG18	1027484	627	1 - 393	2802		Leu-46 to Thr-53, Pro-80 to Ser-86,		H0690: 1, H0683: 1, H0666: 1 and S0328: 1.	20q12-q13.2	118504, 118504,	

					Arg-101 to Gly-112, Lys-115 to Gly-122.				131242, 139320, 139320, 139320, 139320, 600281, 600281, 602025
HPTXK72	1027486	628	52 - 462	2803	Leu-52 to Thr-59, Pro-86 to Ser-92, Arg-107 to Gly-118, Lys-121 to Gly-128.			L0751: 29, H0549: 17, H0550: 17, L0666: 9, L0747: 8, H0689: 7, H0690: 7, H0682: 7, H0615: 6, H0670: 6, H0328: 5, H0150: 4, H0660: 4, S0330: 4, S0044: 4, L0362: 4, H0597: 3, H0688: 3, L0764: 3, L0657: 3, L0809: 3, L0753: 3, L0758: 3, L0759: 3, H0431: 2, H0046: 2, T0067: 2, H0059: 2, H0647: 2, L0774: 2, L0805: 2, L0783: 2, L0438: 2, H0593: 2, H0648: 2, H0672: 2, S0328: 2, S0404: 2, L0744: 2, L0779: 2, S0436: 2, H0662: 1, S0442: 1, S0444: 1,	

							S0408: 1, S0007: 1, H0461: 1, H0085: 1, H0009: 1, S0024: 1, H0188: 1, H0039: 1, H0604: 1, H0424: 1, H0169: 1, H0674: 1, L0520: 1, L5569: 1, L0803: 1, L0804: 1, L0775: 1, L0658: 1, L0634: 1, L0542: 1, L0528: 1, L2269: 1, L0663: 1, L0665: 1, H0684: 1, H0659: 1, H0658: 1, S0380: 1, S0406: 1, H0555: 1 and L0780: 1.				
HHSGW78	1028405	629	150 - 404	2804			H0306: 1 and S0388: 1.5q11.1	253200, 600887			
HDTLR06	1029191	630	3 - 1013	2805			AR053: 5, AR089: 5, AR096: 4, AR039: 4, AR060: 3, AR104: 2, AR055: 2, AR033: 2, AR061: 1 L0731: 15, L0754: 14, H0616: 9, L0766: 8, L0758: 8, L0777: 7, H0266: 5, L0752: 5, S0358: 4, S0422: 4, L0518: 4, H0547: 4, S0406: 4, H0013: 3,				

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HPAMG11	1029484	631	1328 - 663	2806	Pro-32 to Lys-38, Ser-201 to Pro-211, Glu-217 to Glu-222.	H0413: 2, H0556: 1, H0638: 1, S0376: 1, H0457: 1, H0009: 1, H0519: 1, H0682: 1, H0672: 1, L0748: 1, L0759: 1 and H0445: 1.		
HSDJR27	1030870	632	1758 - 622	2807	Gln-8 to Arg-27, Val-34 to Asn-39, Tyr-65 to Gly-75, Glu-80 to Lys-87, Thr-207 to Gly-218, Thr-245 to Gln-250, Leu-256 to Thr-263, Leu-273 to Thr-281, Lys-289 to Leu-296, Ser-323 to Asn-330.	L0665: 3, L0777: 3, L0717: 2, L0776: 2, L0438: 2, L0756: 2, L0752: 2, S0116: 1, H0661: 1, H0339: 1, H0549: 1, H0587: 1, H0688: 1, H0553: 1, L0351: 1, S0422: 1, L0437: 1, L0769: 1, L0637: 1, L0771: 1, L0662: 1, L0794: 1, L0766: 1, L0655: 1, L0787: 1, L0789: 1, L0664: 1, L0352: 1, H0659: 1, L0748: 1, L0754: 1, L0779: 1, L0731: 1, L0758: 1, S0260: 1, L0480: 1, L0596: 1 and L0608: 1.		
HOCPL33	1030871	633	1032 - 571	2808	Asp-1 to Gly-6, Pro-14 to Trp-35, Arg-37 to Gly-45, Ser-63 to Pro-72, Pro-87 to Arg-100,	L0770: 4, L0439: 4, L0438: 3, H0670: 3, L0748: 3, L0740: 3, H0538: 2, L0777: 2, S0342: 1, S0110: 1,		

					Pro-102 to Gly-107.	S0354: 1, S0444: 1, S0360: 1, H0729: 1, H0728: 1, H0734: 1, H0619: 1, H0549: 1, H0550: 1, H0587: 1, H0427: 1, H0253: 1, H0023: 1, T0010: 1, H0039: 1, H0674: 1, H0135: 1, H0488: 1, H0494: 1, S0015: 1, H0647: 1, S0210: 1, L0763: 1, L0800: 1, L0644: 1, L0521: 1, L0768: 1, L0775: 1, L0805: 1, L0659: 1, L0782: 1, L0783: 1, L0528: 1, L0789: 1, L0791: 1, L0793: 1, L0532: 1, H0725: 1, H0659: 1, H0658: 1, H0660: 1, S0013: 1, S0037: 1, S0206: 1, L0751: 1, L0605: 1, L0485: 1, L0599: 1 and S0026: 1.			
HPCQN80	1030963	634	86 - 2158	2809		L0803: 4, L0777: 4, L0758: 4, L0804: 3, L0659: 3, L0752: 3, S0408: 2, L0717: 2, L0598: 2, L0770: 2,			

HODEI22	1031076	635	1561 -	2810		L0662: 2, L0661: 2, L0657: 2, L0526: 2, L0664: 2, H0659: 2, H0648: 2, L0748: 2, L0751: 2, L0749: 2, L0779: 2, S0040: 1, H0713: 1, S0356: 1, S0442: 1, S0360: 1, H0393: 1, H0351: 1, H0441: 1, H0486: 1, H0581: 1, H0123: 1, H0050: 1, S0051: 1, H0673: 1, S0438: 1, S0144: 1, L0520: 1, L0763: 1, L0371: 1, L0637: 1, L5566: 1, L0800: 1, L0764: 1, L0773: 1, L0649: 1, L0381: 1, L0774: 1, L0375: 1, L0806: 1, L0653: 1, L0776: 1, L0809: 1, L0530: 1, L0788: 1, L0666: 1, H0521: 1, H0555: 1, S0032: 1, L0740: 1, L0745: 1, L0750: 1, L0756: 1, L0757: 1, L0591: 1, L0581: 1 and H0506: 1.	L0766: 6, L0804: 5,	
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			1307			L0748: 5, L0666: 4, L0663: 4, L0634: 3, L0740: 3, H0445: 3, H0318: 2, H0046: 2, H0615: 2, H0428: 2, L0761: 2, L0775: 2, L0665: 2, H0658: 2, H0583: 1, H0656: 1, S0001: 1, H0637: 1, H0090: 1, H0038: 1, S0002: 1, L0520: 1, L0638: 1, L0649: 1, L0527: 1, L0657: 1, L0559: 1, L0647: 1, L0664: 1, S0052: 1, S0428: 1, H0682: 1, H0660: 1, H0555: 1 and L0751: 1.			
HODFZ16	1031085	636	340 - 498	2811	Phe-3 to Ala-23.	L0766: 2, L0748: 2, S0116: 1, L0005: 1, H0615: 1, H0529: 1, L0792: 1 and H0521: 1.			
HWGAE28	1031316	637	1 - 2271	2812	Cys-1 to Arg-6, Thr-84 to Thr-97, Arg-131 to Trp-136, Ser-155 to Gly-160, Thr-187 to Glu-201.	L0439: 9, H0519: 6, L0665: 5, H0547: 5, L0755: 5, S0434: 5, H0529: 4, L0659: 4, S0358: 3, S0010: 3, L0731: 3, L0599: 3, L0595: 3, H0422: 3, H0657: 2, H0581: 2,	2p24	107730, 107730, 107730, 107730, 182601, 602134	

					H0251: 2, L0471: 2, H0510: 2, H0031: 2, L0763: 2, L0646: 2, L0662: 2, L0775: 2, L0809: 2, L0647: 2, H0436: 2, L0754: 2, L0758: 2, L0759: 2, L0605: 2, S0424: 2, H0624: 1, L0615: 1, H0341: 1, H0662: 1, S0418: 1, L0005: 1, S0360: 1, S0410: 1, S0046: 1, H0415: 1, H0600: 1, H0587: 1, H0642: 1, H0486: 1, H0250: 1, H0156: 1, H0546: 1, H0041: 1, S6028: 1, H0266: 1, S0334: 1, S0250: 1, T0006: 1, L0455: 1, H0708: 1, H0551: 1, H0059: 1, H0100: 1, L0370: 1, H0429: 1, H0494: 1, S0352: 1, S0370: 1, S0150: 1, H0641: 1, L0369: 1, L0520: 1, L0770: 1, L0638: 1, L0772: 1, L0641: 1, L0521: 1, L0794: 1, L0803: 1,		
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HOFNZ21	1031328	638	109 - 456	2813	Arg-1 to Gly-6.	H0415: 2	9p13-p12	230400, 250250		
HOOKH25	1031329	639	231 - 2696	2814	Ala-4 to Glu-13, Ala-21 to Asp-27, Lys-34 to Asn-40, Asp-91 to Ile-98, Pro-122 to Lys-128, Arg-160 to Gly-165, Glu-203 to Ser-213, Gly-218 to Cys-225, Ser-298 to Lys-304, Glu-307 to Asn-312, Pro-327 to His-333.	L0747: 8, L0659: 7, L0776: 5, L0770: 4, L0662: 4, L0768: 4, L0775: 4, L0752: 4, L0603: 4, H0556: 3, S0410: 3, L0665: 3, L0439: 3, L0750: 3, S0356: 2, S0408: 2, L0471: 2, H0271: 2, S0440: 2, L0762: 2, L0769: 2, L0372: 2.	9p13-p12	230400, 250250		

Thr-363 to Ser-368, Arg-375 to Val-383, Asp-500 to Leu-505, Arg-602 to Asp-608, Glu-722 to Ser-734, Glu-739 to Val-744, Glu-746 to His-751, Leu-778 to Phe-784, Pro-790 to Gly-795, Ala-797 to Thr-807, Tyr-812 to Tyr-821.	L0646: 2, L0764: 2, L0773: 2, L0766: 2, L0649: 2, L0655: 2, L0663: 2, L0664: 2, H0144: 2, L0565: 2, H0547: 2, H0690: 2, H0659: 2, L0602: 2, S0404: 2, L0754: 2, L0749: 2, L0777: 2, L0758: 2, L0596: 2, H0657: 1, S0001: 1, H0484: 1, H0638: 1, S0418: 1, S0444: 1, L0717: 1, H0333: 1, H0156: 1, H0052: 1, H0545: 1, H0012: 1, H0083: 1, H0687: 1, H0674: 1, H0090: 1, H0063: 1, H0264: 1, H0100: 1, L0434: 1, L0351: 1, H0494: 1, H0561: 1, S0466: 1, H0641: 1, H0529: 1, L0763: 1, L0761: 1, L0667: 1, L0363: 1, L0650: 1, L0653: 1, L0654: 1, L0379: 1, L0607: 1, L0807: 1, L0635: 1, L0783: 1, L0383: 1, L0809: 1,
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							L0666: 1, H0658: 1, H0670: 1, H0648: 1, H0521: 1, S0406: 1, L0748: 1, L0731: 1, L0593: 1, L0595: 1, S0026: 1, S0276: 1 and H0422: 1.			
HDTIL75	1031435	640	1 - 1092	2815		Gly-1 to Arg-6, Glu-26 to Gly-31, Gln-70 to Trp-75.	S0410: 8, H0620: 5, H0012: 2, S0040: 1, S0358: 1, S0132: 1, H0486: 1, H0706: 1, H0031: 1, H0628: 1, H0316: 1, S0036: 1, H0090: 1, H0038: 1, H0131: 1, S0144: 1, L0774: 1, L0789: 1, L0666: 1, H0144: 1, L0438: 1, H0435: 1, H0672: 1, S0328: 1, H0539: 1, L0731: 1, S0436: 1 and H0665: 1.			
HPRSB55	1031451	641	3 - 1751	2816		Cys-18 to Lys-24, Gly-57 to Gly-63, Lys-72 to Ile-81, Cys-88 to Glu-93, Gly-97 to Glu-116, Thr-121 to Val-129, Lys-137 to Lys-150, Thr-156 to Asp-161, Gly-177 to Leu-182,	L0766: 4, L0758: 4, L0773: 3, L0748: 3, L0751: 3, L0731: 3, L0759: 3, H0171: 2, H0013: 2, H0644: 2, H0616: 2, H0633: 2, L0805: 2, L0659: 2, L0666: 2, L0665: 2, L0754: 2, L0779: 2,			



						Glu-213 to Leu-229, S6024: 1, S0212: 1, Asp-275 to Arg-281, S0354: 1, S0046: 1, Asp-287 to Trp-299, T0039: 1, H0599: 1, Lys-302 to Arg-316, H0575: 1, H0036: 1, Leu-338 to Ser-343. T0110: 1, H0046: 1, H0050: 1, L0471: 1, H0355: 1, H0271: 1, H0687: 1, H0553: 1, H0166: 1, H0212: 1, H0211: 1, H0264: 1, H0272: 1, H0100: 1, H0494: 1, S0002: 1, L0637: 1, L0627: 1, L0645: 1, L0764: 1, L0803: 1, L0774: 1, L0653: 1, L0606: 1, L0790: 1, L0664: 1, H0435: 1, H0660: 1, H0648: 1, H0521: 1, L0439: 1, L0747: 1, L0749: 1, L0750: 1, L0752: 1 and L0596: 1.			
HPDPY36	1031606	642	482 - 757	2817	Pro-33 to Pro-40, Pro-47 to Met-56.	L0471: 1, H0617: 1, L0761: 1, L0768: 1, H0658: 1, L0754: 1 and L0779: 1.	12		
HETFJ47	1031922	643	3 - 1328	2818		AR060: 4, AR089: 2, AR061: 1, AR096: 1, AR033: 0, AR039: 0, AR053: 0, AR052: 0			

	L0596: 7, H0622: 5, L0747: 5, H0046: 4, L0372: 4, L0764: 3, L0662: 3, L0657: 3, L0783: 3, L0663: 3, L0752: 3, H0662: 2, S0356: 2, H0040: 2, H0538: 2, L0646: 2, L0771: 2, L0774: 2, L0805: 2, L0809: 2, L0666: 2, L0665: 2, H0435: 2, H0672: 2, L0748: 2, L0751: 2, L0777: 2, L0608: 2, H0624: 1, H0686: 1, H0295: 1, H0241: 1, S0418: 1, S0358: 1, S0376: 1, S0360: 1, S0132: 1, H0642: 1, H0590: 1, H0150: 1, H0620: 1, H0023: 1, H0356: 1, H0424: 1, H0213: 1, H0617: 1, H0169: 1, H0634: 1, H0063: 1, T0067: 1, H0488: 1, H0334: 1, S0370: 1, S0440: 1, H0652: 1, L0645: 1, L0773: 1, L0648: 1, L0806: 1, L0776: 1,					
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HMAMI21	1031988	644	14 - 1222	2819	<p>L0541: 1, L0789: 1, L0790: 1, L0664: 1, S0374: 1, H0689: 1, H0666: 1, H0478: 1, L0779: 1, S0436: 1, H0506: 1 and H0712: 1.</p> <p>AR096: 10, AR089: 10, AR060: 7, AR104: 6, AR033: 5, AR053: 5, AR039: 4, AR061: 3, AR055: 3 L0803: 9, H0648: 5, H0046: 3, L0805: 3, L0731: 3, S0444: 2, S0360: 2, S0476: 2, H0597: 2, H0412: 2, L0764: 2, L0809: 2, H0670: 2, L0740: 2, L0747: 2, L0756: 2, L0777: 2, S0040: 1, T0049: 1, S0420: 1, S0358: 1, S0376: 1, H0580: 1, L0152: 1, S0045: 1, S0278: 1, H0261: 1, S0280: 1, H0618: 1, H0012: 1, H0266: 1, H0488: 1, H0268: 1, S0144: 1, S0344: 1, S0426: 1, L0638: 1, L0646: 1,</p>		
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HCOQQ85	1032475	645	343 - 672	2820	Arg-37 to Ser-44, Leu-68 to Lys-73, Val-77 to Lys-84, Glu-98 to Lys-110.	L0794: 1, L0804: 1, L0774: 1, L0666: 1, L0664: 1, L0665: 1, S0052: 1, S0374: 1, H0658: 1, H0651: 1, S0028: 1, L0779: 1, L0780: 1, L0755: 1, L0759: 1, H0445: 1 and S0276: 1.			
						L0775: 9, S0126: 9, L0747: 9, H0617: 7, L0750: 7, L0731: 7, H0670: 5, L0740: 5, L0770: 4, L0769: 4, L0768: 4, L0783: 4, L0752: 4, T0023: 3, L0764: 3, L0653: 3, L0776: 3, H0672: 3, S0046: 2, T0039: 2, H0318: 2, H0251: 2, H0545: 2, H0012: 2, H0373: 2, S0388: 2, H0266: 2, H0087: 2, H0100: 2, H0280: 2, L0368: 2, L0753: 2, L0755: 2, L0757: 2, H0595: 2, L0590: 2, L0592: 2, S6024: 1, H0255: 1, H0664: 1, H0177: 1, S0360: 1,	1q21		104770, 107670, 110700, 135940, 145001, 146790, 152445, 152445, 159001, 174000, 179755, 182860, 182860, 182860, 191315, 230800, 230800, 266200, 600897, 601105, 601412,

HE2DQ62	1033653	646	1515 - 796	2821	Arg-1 to Ala-7, Glu-98 to Asp-103, Glu-109 to Asp-115, Leu-141 to Glu-146, Glu-172 to Arg-180	S0408: 1, H0411: 1, H0298: 1, L0622: 1, T0040: 1, L0021: 1, S0049: 1, H0052: 1, H0263: 1, H0597: 1, H0620: 1, T0003: 1, L0163: 1, H0594: 1, H0252: 1, H0606: 1, H0163: 1, S0464: 1, S0438: 1, H0652: 1, L0598: 1, L0763: 1, L0773: 1, L0375: 1, L0629: 1, L0628: 1, L0659: 1, L0518: 1, L0545: 1, L0541: 1, L0788: 1, L0665: 1, H0144: 1, H0691: 1, H0682: 1, H0658: 1, H0660: 1, H0648: 1, S0330: 1, S0380: 1, S0027: 1, L0748: 1, L0754: 1, L0756: 1, L0780: 1, L0758: 1, L0759: 1, L0462: 1 and H0352: 1.		601652, 602491
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							H0660: 2, H0672: 2, S0031: 2, L0588: 2, H0624: 1, H0170: 1, H0265: 1, H0556: 1, H0295: 1, H0583: 1, H0657: 1, H0662: 1, S0356: 1, S0354: 1, S0360: 1, H0637: 1, S0046: 1, L0717: 1, H0550: 1, H0013: 1, H0086: 1, H0011: 1, H0510: 1, H0494: 1, H0646: 1, H0529: 1, L0502: 1, L0770: 1, L0638: 1, L0761: 1, L0521: 1, L0528: 1, L0666: 1, L0665: 1, H0144: 1, S0374: 1, H0519: 1, H0659: 1, S0380: 1, H0704: 1, S0028: 1, L0747: 1, L0779: 1, L0777: 1, H0653: 1, S0194: 1 and S0276: 1.		
HEBAE89	1034320	647	179 - 400	2822	Pro-20 to Phe-32, Pro-52 to Phe-59, Lys-68 to His-74.	S0007: 5, S0010: 1, H0617: 1 and L0769: 1.			
HKDBF43	1034471	648	3 - 431	2823	Pro-2 to Asp-14, Ser-71 to Thr-76, Ser-110 to Trp-119.	AR089: 31, AR053: 27, AR096: 26, AR052: 25, AR039: 16, AR060:			

HVVCT43	1034539	649	3152 - 2838	2824			15, AR033: 13, AR104: 13, AR055: 6, AR061: 4 L0749: 4, L0471: 3, L0748: 3, L0777: 3, H0545: 2, H0561: 2, L0770: 2, L0769: 2, L0745: 2, L0779: 2, L0752: 2, L0759: 2, H0657: 1, H0663: 1, H0125: 1, S0358: 1, H0393: 1, H0411: 1, L0586: 1, H0013: 1, H0156: 1, H0083: 1, H0356: 1, H0328: 1, H0321: 1, H0551: 1, S0422: 1, L0764: 1, L0773: 1, L0804: 1, L0774: 1, L0776: 1, L0659: 1, H0547: 1, H0519: 1, H0683: 1, H0659: 1, H0648: 1, H0672: 1, S0330: 1, S3014: 1, L0731: 1, S0031: 1 and H0352: 1. L0666: 47, H0046: 20, H0672: 13, L0754: 11, S0003: 9, L0766: 6, L0664: 6, L0744: 5, L0439: 5, L0777: 5,		
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HTTDR30	1035435	650	609 - 1022	2825	Val-39 to Ala-45.	H0100: 1, H0625: 1, H0561: 1, S0440: 1, H0641: 1, S0144: 1, S0142: 1, L0598: 1, H0529: 1, L0369: 1, L0769: 1, L0646: 1, L0771: 1, L0662: 1, L0803: 1, L0774: 1, L0651: 1, L0805: 1, L0776: 1, L0659: 1, L0783: 1, L0791: 1, L0792: 1, H0519: 1, H0684: 1, H0670: 1, H0660: 1, H0648: 1, S0328: 1, H0518: 1, H0521: 1, H0522: 1, H0696: 1, H0555: 1, H0436: 1, L0758: 1, H0445: 1, L0684: 1, H0595: 1, L0588: 1, S0026: 1, H0543: 1, H0422: 1 and H0506: 1.		
						AR055: 8, AR060: 6, AR052: 6, AR089: 5, AR096: 5, AR053: 5, AR033: 4, AR061: 3, AR104: 2, AR039: 2 L0766: 7, H0591: 3, H0040: 3, L0794: 3, H0689: 3, L0752: 3,		

							H0581: 2, H0059: 2, L0771: 2, L0809: 2, L0665: 2, L0749: 2, H0637: 1, H0497: 1, T0109: 1, H0036: 1, H0318: 1, H0039: 1, H0181: 1, H0038: 1, H0634: 1, L0637: 1, L0662: 1, L0649: 1, L0388: 1, L0776: 1, L0655: 1, L0658: 1, L0788: 1, H0520: 1, H0690: 1, H0670: 1, H0672: 1, L0751: 1, L0747: 1, L0750: 1, L0777: 1, L0758: 1 and L0361: 1.		
HODGO46	1035602	651	420 - 316	2826		Thr-11 to Asn-18, Gly-25 to Glu-30.	H0615: 2		
HNTTB23	1035988	652	3 - 974	2827		Pro-21 to Asn-31, Arg-158 to Lys-170, Thr-194 to Leu-200.	AR039: 2, AR096: 1, AR089: 1, AR060: 1, AR033: 1, AR061: 1, AR055: 0, AR053: 0 L0757: 3, L0594: 2, S0212: 1, L0527: 1, H0547: 1, S0328: 1 and L0756: 1.		
HVVBV73	1036583	653	334 - 1299	2828		His-55 to Arg-63, Glu-96 to Val-109, Ser-113 to Ala-119,	S0278: 5, H0580: 2, H0575: 2, H0050: 2, S0344: 2, L0764: 2,		

						Lys-140 to Tyr-150, Glu-157 to Ser-172, Gly-174 to Asn-185, Arg-223 to Pro-245, Leu-264 to Asp-272.	H0672: 2, T0002: 1, S0134: 1, H0656: 1, S0116: 1, H0706: 1, S0010: 1, H0581: 1, H0375: 1, H0030: 1, H0031: 1, H0644: 1, H0090: 1, H0087: 1, T0041: 1, S0142: 1, S0002: 1, S0426: 1, L0770: 1, L0667: 1, L0794: 1, L0803: 1, L0543: 1, H0521: 1, L0748: 1, L0749: 1, S0260: 1 and H0542: 1.		
HE8MH38	1036707	654	1 - 1812	2829			H0013: 2 and S0126: 1, L0754: 6, L0758: 6, L0598: 3, L0756: 3, H0716: 2, S0358: 2, S0360: 2, S0007: 2, H0318: 2, H0052: 2, L0471: 2, H0615: 2, L0794: 2, L0766: 2, L0663: 2, H0658: 2, L0750: 2, L0731: 2, H0664: 1, H0638: 1, S0442: 1, H0741: 1, H0734: 1, H0229: 1, H0411: 1, H0415: 1, H0497: 1, H0574: 1, H0599: 1, H0108: 1,		
HTEPV42	1036973	655	1 - 435	2830		Gln-1 to Asp-6, Gly-11 to Ser-16, Pro-21 to Leu-41, Ser-44 to Pro-54.			

							S0010: 1, S0474: 1, H0581: 1, H0050: 1, S0214: 1, H0030: 1, H0032: 1, H0113: 1, H0616: 1, T0067: 1, H0488: 1, H0059: 1, S0438: 1, H0538: 1, L0803: 1, L0805: 1, L0776: 1, L0655: 1, L0659: 1, L0809: 1, L5623: 1, L0788: 1, L0791: 1, L0793: 1, L0666: 1, H0520: 1, H0519: 1, H0684: 1, H0670: 1, H0521: 1, L0747: 1, L0749: 1, L0752: 1, L0759: 1, S0434: 1, L0596: 1, L0592: 1, L0362: 1 and H0423: 1.		
HFTCG52	1037108	656	-706 - 89	2831	Val-10 to Lys-17, Val-137 to Gly-142, Pro-148 to Tyr-167.	AR061: 28, AR033: 25, AR104: 22, AR055: 22, AR060: 19, AR089: 19, AR052: 12, AR039: 11, AR096: 11, AR053: 8 L0751: 7, L0769: 6, L0750: 5, L0752: 5, H0052: 4, L0771: 4, L0775: 4, L0758: 4.			

		H0556: 3, L0665: 3, H0486: 2, S0010: 2, H0620: 2, T0006: 2, H0181: 2, H0494: 2, L0774: 2, L0375: 2, L0776: 2, L0512: 2, L0659: 2, H0555: 2, S0206: 2, L0740: 2, L0747: 2, L0596: 2, L0588: 2, S0276: 2, H0624: 1, S0402: 1, T0049: 1, H0341: 1, H0662: 1, S0358: 1, S0376: 1, S0360: 1, S0045: 1, S0476: 1, L0717: 1, H0351: 1, S0222: 1, H0455: 1, T0114: 1, L0021: 1, H0618: 1, T0048: 1, H0318: 1, L0109: 1, H0309: 1, H0544: 1, H0546: 1, H0545: 1, H0009: 1, H0123: 1, L0471: 1, H0424: 1, H0031: 1, H0628: 1, H0617: 1, H0063: 1, H0059: 1, H0100: 1, H0625: 1, H0633: 1, H0646: 1, H0517: 1, L0770: 1, L0764: 1,				
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HKAOB40	1037131	657	1 - 360	2832	Asp-64 to Phe-69, Thr-104 to Phe-120.	L0766: 1, L0655: 1, L0657: 1, L0526: 1, L0783: 1, L0809: 1, L0544: 1, L0529: 1, L0664: 1, S0428: 1, H0593: 1, S0126: 1, H0682: 1, H0659: 1, H0670: 1, H0648: 1, L0611: 1, S0432: 1, L0756: 1, L0757: 1, S0436: 1 and S0194: 1. AR052: 26, AR033: 22, AR104: 15, AR053: 14, AR060: 12, AR055: 12, AR089: 11, AR096: 8, AR061: 4, AR039: 2 H0360: 14, S0408: 5, L0774: 5, L0749: 5, L0775: 4, H0648: 4, L0623: 3, H0373: 3, L0520: 3, S0328: 3, S0406: 3, S0360: 2, S0222: 2, H0575: 2, T0082: 2, L0471: 2, H0494: 2, L0763: 2, L0769: 2, L0764: 2, L0517: 2, L0809: 2, H0684: 2, L0747: 2, S0031: 2, L0581: 2,		
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	H0171: 1, T0002: 1, H0685: 1, T0049: 1, H0657: 1, S0116: 1, L0481: 1, H0638: 1, S0358: 1, S0444: 1, S0410: 1, H0580: 1, H0722: 1, S0045: 1, S0046: 1, S0132: 1, H0393: 1, T0060: 1, H0156: 1, H0230: 1, H0320: 1, H0014: 1, L0163: 1, S0051: 1, H0615: 1, S0036: 1, H0412: 1, H0202: 1, H0560: 1, S0438: 1, S0440: 1, S0144: 1, L0772: 1, L0521: 1, L0662: 1, L0767: 1, L0768: 1, L5574: 1, L0522: 1, L0659: 1, L0526: 1, L0782: 1, L0788: 1, H0689: 1, H0690: 1, H0658: 1, H0670: 1, H0672: 1, S0378: 1, S0404: 1, S0028: 1, L0779: 1, L0757: 1, L0758: 1, L0759: 1, S0434: 1, L0589: 1, S0192: 1, H0422: 1 and S0424: 1.					
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HPDVE37	1037303	658	34 - 885	2833	His-8 to Gly-18, Phe-25 to Ala-39, Val-70 to Ser-75, Gln-114 to Gly-121, Thr-146 to Lys-155, Gly-213 to Asn-219, Glu-256 to Asp-267.	H0521: 68, H0090: 12, L0666: 10, L0748: 10, L0775: 9, H0522: 9, H0638: 8, L0771: 8, L0659: 8, H0591: 7, L0747: 7, L0770: 5, L0664: 5, L0754: 5, H0580: 4, H0486: 4, H0622: 4, H0644: 4, H0551: 4, H0494: 4, L0655: 4, S0374: 4, L0755: 4, L0759: 4, S0132: 3, H0013: 3, H0421: 3, H0553: 3, H0616: 3, H0641: 3, S0142: 3, L0766: 3, L0663: 3, L0665: 3, H0547: 3, L0756: 3, L0779: 3, L0752: 3, S0358: 2, S0376: 2, S0444: 2, S0360: 2, S0278: 2, H0431: 2, H0586: 2, H0575: 2, H0318: 2, H0581: 2, H0457: 2, S0003: 2, H0688: 2, H0039: 2, H0264: 2, H0529: 2, L0763: 2, L0769: 2, L0646: 2, L0803: 2, L0774: 2, H0701: 2,		
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		S0380: 2, H0555: 2, L0439: 2, L0740: 2, L0777: 2, L0731: 2, H0445: 2, L0599: 2, L0608: 2, H0506: 2, S0040: 1, H0650: 1, S0116: 1, S0212: 1, S0356: 1, S0354: 1, S0468: 1, S0045: 1, H0619: 1, S6022: 1, H0370: 1, H0392: 1, H0497: 1, H0642: 1, T0114: 1, H0427: 1, H0042: 1, H0251: 1, H0596: 1, H0046: 1, H0086: 1, H0057: 1, H0083: 1, H0375: 1, T0023: 1, H0031: 1, L0055: 1, H0598: 1, H0135: 1, H0038: 1, H0040: 1, H0412: 1, H0056: 1, T0042: 1, S0370: 1, H0509: 1, S0144: 1, S0002: 1, S0426: 1, L0796: 1, L0772: 1, L0764: 1, L0765: 1, L0662: 1, L0768: 1, L0389: 1, L0804: 1, L0651: 1, L0636: 1, L0647: 1,				
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HTLES74	1037438	659	95 - 859	2834			H0618: 3, L0740: 2, L0749: 2, L0596: 2, L0597: 2, S0354: 1, H0580: 1, H0042: 1, H0253: 1, S0010: 1, H0172: 1, H0615: 1, H0412: 1, S0386: 1, L0648: 1, L0662: 1, L0768: 1, L0803: 1, L0774: 1, L0657: 1, L0809: 1, L0779: 1, L0758: 1 and H0445: 1.		
HCORG51	1037480	660	3 - 434	2835	Cys-1 to Glu-6, Asp-52 to Asp-65, Lys-82 to Pro-88, Phe-111 to Ala-123.		S0136: 33, L0747: 16, H0144: 14, L0731: 14, L0752: 13, S0422: 12, L0740: 12, L0754: 11,		

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	S0476: 3, S0278: 3, S0222: 3, H0486: 3, H0687: 3, H0674: 3, S0448: 3, L0646: 3, L0662: 3, L0649: 3, L0774: 3, L0657: 3, S0374: 3, H0547: 3, S0328: 3, S3014: 3, H0444: 3, H0171: 2, H0265: 2, T0002: 2, S0040: 2, H0716: 2, H0295: 2, T0049: 2, S0218: 2, H0656: 2, S0116: 2, H0638: 2, S0418: 2, S0420: 2, S0358: 2, S0045: 2, H0369: 2, H0431: 2, H0415: 2, H0592: 2, H0586: 2, H0574: 2, T0109: 2, H0250: 2, S0280: 2, S0010: 2, H0052: 2, H0050: 2, H0012: 2, H0051: 2, S0051: 2, H0266: 2, H0288: 2, S0214: 2, H0252: 2, H0428: 2, H0039: 2, H0673: 2, H0135: 2, H0063: 2, H0412: 2, H0623: 2, S0150: 2, H0207: 2,	
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HPAMM72	1038344	661	2 - 520	2836	Gly-1 to Thr-11.		L0789: 1, L0663: 1, S0428: 1, H0701: 1, L0565: 1, H0519: 1, H0593: 1, H0689: 1, H0658: 1, H0672: 1, S0330: 1, H0539: 1, S0378: 1, S0380: 1, H0709: 1, S0152: 1, S0332: 1, S0044: 1, S0188: 1, H0187: 1, L0356: 1, H0478: 1, H0627: 1, H0631: 1, L0611: 1, S0206: 1, S0032: 1, L0439: 1, L0786: 1, H0343: 1, L0592: 1, L0485: 1, H0668: 1, H0136: 1, S0194: 1, S0196: 1, S0460: 1, H0506: 1 and H0008: 1.	16p13.3	141750, 141800, 141800, 141800, 141800, 141850, 141850, 141850, 141850, 141850,

HKZAT03	1038378	662	21 - 1559	2837	Thr-1 to Gly-8, Phe-49 to Leu-67, Gln-142 to Gly-150, Pro-274 to Leu-282,	L0779: 2, L0731: 2, L0757: 2, L0605: 2, L0615: 1, S0342: 1, H0580: 1, S0278: 1, H0550: 1, S0280: 1, L0021: 1, T0048: 1, H0052: 1, H0544: 1, H0545: 1, L0471: 1, H0012: 1, H0620: 1, H0014: 1, N0007: 1, S0051: 1, H0083: 1, H0284: 1, S0250: 1, H0688: 1, H0708: 1, H0080: 1, H0494: 1, H0509: 1, L0770: 1, L0764: 1, L0771: 1, L0376: 1, L0782: 1, L0809: 1, L0545: 1, L0666: 1, H0682: 1, H0659: 1, H0658: 1, H0672: 1, H0696: 1, S0044: 1, H0214: 1, L0743: 1, L0740: 1, L0754: 1, L0777: 1, S0260: 1, S0276: 1 and S0196: 1.	H0617: 14, H0521: 11, 22q13.33 L0794: 4, H0542: 4, H0638: 3, S0360: 3, L0648: 3, L0659: 3,	156850, 186580, 191092, 600140, 600273, 601313, 601785
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					Pro-396 to Leu-402, L0665: 3, S0328: 3, Arg-405 to Glu-410, H0518: 3, H0423: 3, Gly-436 to Ala-442, S0358: 2, H0622: 2, Arg-470 to Pro-476, H0641: 2, L0763: 2, Pro-481 to Leu-486, L0663: 2, L0664: 2, H0689: 2, H0522: 2, H0555: 2, H0422: 2, H0624: 1, H0585: 1, H0657: 1, H0671: 1, H0402: 1, S0376: 1, H0580: 1, S0278: 1, H0549: 1, H0602: 1, H0586: 1, H0069: 1, H0635: 1, H0581: 1, H0546: 1, H0510: 1, H0179: 1, H0271: 1, H0644: 1, H0606: 1, H0090: 1, H0634: 1, H0551: 1, H0488: 1, H0509: 1, L0640: 1, L0800: 1, L0662: 1, L0804: 1, L0607: 1, L0657: 1, L0809: 1, L0790: 1, L0666: 1, H0593: 1, H0684: 1, H0672: 1, H0710: 1, S0434: 1, S0436: 1 and S0196: 1.					
HDQMA85	1038717	663	228 - 356	2838			12p12.3- p12.1	103950, 112410,		

								150100, 168470, 190070, 190070, 200990, 602096
HVCCQ82	1038718	664	3 - 578	2839	Ala-14 to Asp-19, Lys-92 to Arg-110.	L0748: 34, L0777: 15, S0438: 11, S0192: 11, p12.1 L0608: 7, H0331: 6, H0574: 6, L0771: 6, S0027: 6, L0756: 6, H0632: 5, L0731: 5, S0360: 4, H0427: 4, L0662: 4, L0744: 4, L0779: 4, L0757: 4, S0242: 4, S0354: 3, S0408: 3, H0494: 3, H0509: 3, L0770: 3, L0775: 3, L0809: 3, L0666: 3, H0519: 3, H0648: 3, S3014: 3, S0028: 3, L0750: 3, H0661: 2, S0442: 2, S0358: 2, S0376: 2, S0444: 2, H0013: 2, S0280: 2, H0309: 2, H0545: 2, H0510: 2, H0032: 2, H0551: 2, S0142: 2, S0422: 2, L0774: 2, L0806: 2,	I2p12.3- p12.1	103950, 112410, 150100, 168470, 190070, 190070, 200990, 602096

L0776: 2, L0518: 2, L0532: 2, S0374: 2, H0547: 2, H0435: 2, H0696: 2, S0206: 2, S0032: 2, L0755: 2, L0758: 2, H0668: 2, S0194: 2, H0170: 1, H0685: 1, S0116: 1, H0638: 1, H0339: 1, S0045: 1, S0278: 1, S6022: 1, H0586: 1, H0497: 1, H0486: 1, L0021: 1, H0003: 1, H0147: 1, H0421: 1, H0546: 1, S0050: 1, H0014: 1, H0015: 1, S0051: 1, H0355: 1, H0375: 1, H0031: 1, H0628: 1, H0038: 1, S0014: 1, S0466: 1, S0440: 1, H0633: 1, H0646: 1, S0344: 1, S0210: 1, S0002: 1, L0371: 1, L0638: 1, L0772: 1, L0373: 1, L0764: 1, L0522: 1, L0803: 1, L0526: 1, L0545: 1, L0787: 1, L0790: 1, L0663: 1, H0520: 1, H0593: 1,						
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							S0126: 1, H0682: 1, H0660: 1, H0666: 1, S0152: 1, S0406: 1, S0392: 1, H0345: 1, L0742: 1, L0439: 1, L0740: 1, L0753: 1, H0444: 1, H0653: 1 and S0196: 1.			
HTGFP54	1038915	665	22 - 528	2840			H0435: 2, S0218: 1 and H0415: 1.			
HBODF41	1039017	666	1 - 2418	2841			L0747: 26, L0740: 20, L0748: 18, L0752: 14, L0745: 13, L0599: 11, L0659: 8, H0509: 7, L0756: 7, L0777: 7, S0222: 6, S0010: 6, L0764: 6, L0776: 6, L0666: 6, L0754: 6, L0746: 6, H0013: 5, S0346: 5, H0050: 5, L0750: 5, L0758: 5, S0360: 4, H0574: 4, H0632: 4, S0280: 4, L0471: 4, H0039: 4, H0622: 4, L0766: 4, L0774: 4, L0783: 4, H0445: 4, L0366: 4, H0586: 3, H0251: 3, H0014: 3, T0010: 3, H0644: 3, L0769: 3,			

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HR0DW53	1039068	667	45 - 494	2842	Arg-115 to Gln-127, Leu-137 to Val-150.	S0374: 1, H0593: 1, H0659: 1, S0152: 1, H0696: 1, H0704: 1, H0436: 1, L0609: 1, S0390: 1, S0037: 1, S0027: 1, L0741: 1, L0755: 1, H0444: 1, L0485: 1, L0581: 1, H0667: 1, L0096: 1 and S0194: 1.		
						L0748: 14, L0766: 11, L0777: 5, L0794: 4, L0803: 4, L0776: 3, L0747: 3, L0749: 3, L0791: 2, L0438: 2, H0435: 2, L0779: 2, L0780: 2, S0192: 2, L0442: 1, S6024: 1, S0134: 1, H0583: 1, S0222: 1, H0421: 1, H0235: 1, H0620: 1, H0598: 1, H0059: 1, T0041: 1, S0426: 1, L0764: 1, L0662: 1, L0774: 1, L0805: 1, L0659: 1, L0809: 1, L0790: 1, L0792: 1, L0666: 1, L0664: 1, H0659: 1, H0670: 1, H0648: 1, L0740: 1,		

HPAMC60	1039290	668	1 - 1242	2843	Pro-7 to Pro-17, Leu-20 to Gly-26, Leu-48 to Val-54, Pro-65 to Asn-70, Glu-90 to Ala-95, Ala-102 to Gln-116, Glu-122 to Leu-137, Val-183 to Leu-192, Ala-235 to Ile-256, Gly-264 to Asp-270, Phe-282 to Ile-288, Arg-309 to Ala-314, Asn-330 to Asp- 336, Ala-338 to Asp-344, Lys-358 to Lys-367.	L0750: 1, L0758: 1, S0106: 1 and S0446: 1. H0682: 1	15q22	102578, 109700, 151670, 154550, 601780
HLMHM83	1039491	669	155 - 745	2844	Val-43 to Tyr-48, Pro-50 to Ser-57, Thr-75 to Gly-83, Tyr-95 to Asn-105, Tyr-155 to Trp-163.	H0617: 7, L0771: 6, S0408: 4, S0358: 3, H0638: 2, L0761: 2, L0764: 2, L0655: 2, L0634: 2, L0666: 2, H0435: 2, L0751: 2, L0777: 2, H0506: 2, H0650: 1, H0254: 1, H0255: 1, S0444: 1, H0351: 1, H0549: 1, H0600: 1, H0592: 1, L0022: 1, H0744: 1,		



HOUDK70	1039538	670	84 - 1142	2845	Phe-27 to Gly-32, Tyr-45 to Glu-57, Gly-80 to Asn-89, Ser-182 to Pro-187, Asp-270 to Ser-278, Tyr-288 to Trp-293.	H0204: 1, H0231: 1, S0440: 1, L0800: 1, L0643: 1, L0648: 1, L0662: 1, L0776: 1, L0664: 1, S0216: 1, H0690: 1, H0672: 1, S0378: 1, S0406: 1, H0555: 1, L0747: 1 and S0436: 1.		
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HMEFK29	1039652	672	643 - 999	2847				H0402: 2, H0570: 1, H0266: 1 and H0666: 1.		
HAOSK79	1039663	673	48 - 659	2848	Asp-10 to Gly-17, Asp-38 to Ser-44, Asn-70 to Thr-79, Gly-81 to Ser-91, Lys-94 to Ala-102, Asp-110 to Ile-116, Asp-152 to Leu-157, Pro-172 to Glu-177.		L0748: 28, L0758: 13, L0769: 7, L0766: 7, S0026: 7, L0749: 6, H0266: 5, H0616: 4, L0750: 4, L0362: 4, H0341: 3, H0658: 3, L0747: 3, H0686: 2, H0318: 2, H0413: 2, H0494: 2, L0646: 2, H0659: 2, L0751: 2, L0731: 2, L0759: 2, L0588: 2, T0002: 1, H0656: 1, H0484: 1, H0661: 1, L0481: 1, H0125: 1, S0045: 1, H0351: 1, H0013: 1,			

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HPDRV42	1039689	674	3 - 1649	2849	Glu-31 to Pro-39, Thr-75 to Glu-80, Ala-131 to Gly-140, Ala-156 to Ala-165, Arg-184 to Phe-189, Asn-221 to Phe-228, Glu-239 to Glu-245, Ser-253 to Asp-261, Thr-267 to Thr-272, Thr-292 to Asp-297, Tyr-313 to Asn-325, Glu-385 to Leu-393,	H0521: 23, S0360: 15, H0046: 14, S0126: 13, L0747: 12, H0551: 11, H0318: 10, S0328: 9, H0542: 9, H0580: 8, H0486: 8, H0581: 8, H0615: 8, S0440: 8, H0660: 8, S0434: 8, H0543: 8, L0664: 7, H0556: 6, S0212: 6, H0494: 6, L0663: 6, S0358: 5, S0476: 5,	15q15	177070, 177070, 182500, 218000, 227220, 243500, 600839, 601800	

Tyr-400 to Lys-410, Pro-413 to Gly-420, Lys-454 to Leu-463, Pro-501 to Gly-514, Gln-535 to Leu-549.	H0013: 5, H0457: 5, H0553: 5, H0673: 5, H0696: 5, S0406: 5, L0740: 5, L0731: 5, L0596: 5, H0585: 4, H0661: 4, S0418: 4, S0356: 4, S0408: 4, H0575: 4, H0620: 4, H0617: 4, L0764: 4, L0666: 4, L0665: 4, H0519: 4, S3014: 4, S0027: 4, L0752: 4, H0265: 3, H0713: 3, H0657: 3, H0341: 3, H0671: 3, H0638: 3, S0420: 3, S0354: 3, H0619: 3, H0411: 3, H0370: 3, H0586: 3, H0587: 3, H0597: 3, L0471: 3, H0687: 3, S0250: 3, S0003: 3, S0142: 3, H0529: 3, L0662: 3, L0766: 3, L0651: 3, L0659: 3, H0690: 3, S0152: 3, H0436: 3, S0028: 3, L0748: 3, L0750: 3, L0779: 3, L0755: 3, L0757: 3, H0445: 3, S0011: 3, H0423: 3,
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HOPJD35	1039703	675	2590 - 1349	2850	Ser-1 to Pro-16, Asn-40 to Gly-46, Pro-48 to Arg-53, Lys-64 to Pro-72, Val-87 to Asp-93, Asp-109 to Tyr-118, Glu-157 to Pro-172, Pro-178 to Gly-188, Glu-252 to Leu-263, Thr-266 to Leu-273, Glu-296 to Ala-310, Glu-312 to Gln-318, Glu-324 to Asn-340, Glu-344 to Gly-373, Glu-383 to Asn-395, Val-399 to Glu-414.	L0662: 7, H0013: 5, L0766: 5, L0803: 4, L0655: 4, L0665: 4, L0740: 4, L0731: 4, H0677: 4, T0042: 3, L0776: 3, L0809: 3, H0519: 3, L0750: 3, L0759: 3, H0543: 3, H0170: 2, L0470: 2, H0341: 2, S0360: 2, H0266: 2, H0551: 2, L0351: 2, H0529: 2, L0646: 2, L0521: 2, L0651: 2, L0659: 2, L0663: 2, L0664: 2, H0547: 2, H0659: 2, L0602: 2, H0518: 2, H0522: 2, S0406: 2, L0748: 2, L0747: 2,			H0627: 1, L0612: 1, S0206: 1, L0743: 1, L0439: 1, L0751: 1, L0753: 1, L0759: 1, S0260: 1, H0444: 1, L0608: 1, L0593: 1, H0668: 1, H0665: 1, S0242: 1, S0194: 1, S0196: 1, S0424: 1, H0008: 1, H0352: 1 and H0712: 1.
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HTFNP84	1039748	676	70 - 1227	2851	Tyr-11 to Val-16, Glu-37 to Arg-42, Asn-50 to Arg-58, Leu-82 to Leu-96, Glu-112 to Gln-120.	L0527: 1, L0658: 1, L0529: 1, L0789: 1, L0791: 1, L4501: 1, L0666: 1, S0374: 1, L0565: 1, H0723: 1, S0126: 1, H0684: 1, H0435: 1, H0651: 1, S0330: 1, S0378: 1, S0152: 1, H0521: 1, S0044: 1, H0555: 1, H0631: 1, L0749: 1, L0756: 1, L0786: 1, L0755: 1, L0758: 1, S0031: 1, H0445: 1, L0588: 1, L0605: 1, L0608: 1, L0595: 1 and H0653: 1.			
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HTHDT76	1039871	677	1 - 603	2852	Gln-16 to Ser-24.	S0420: 1, H0600: 1, H0587: 1, H0013: 1, H0428: 1, H0644: 1, H0063: 1, H0386: 1 and L0747: 1.					
HSYEC21	1039891	678	411 - 2372	2853		H0521: 9, L0439: 9, L0747: 8, L0655: 6, L0748: 6, S0212: 5, S6028: 4, L0483: 4, L0794: 4, L0766: 4,	12q21-q23	124200, 147440, 160781, 217300, 235800,			

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HKGCO25	1040384	679	3 - 719	2854	Glu-53 to Phe-58, Arg-70 to Phe-79, Ile-94 to Val-102, Thr-106 to Thr-118, Glu-139 to Asp-149, Asp-183 to Lys-215.							
HNOJN70	1040385	680	273 - 425	2855					L0766: 12, L0759: 8, H0171: 6, L0754: 6, L0731: 6, H0624: 5, H0584: 5, H0031: 5, S0422: 5, L0663: 5, H0547: 5, L0756: 5, S0276: 5, H0686: 4, S0474: 4, L0662: 4,			



L0777: 4, L0758: 4, H0170: 3, L0717: 3, H0457: 3, H0090: 3, L0770: 3, L0794: 3, L0650: 3, L0805: 3, L0655: 3, L0659: 3, L0666: 3, H0520: 3, H0543: 3, S0412: 3, H0657: 2, H0341: 2, H0306: 2, H0402: 2, S0358: 2, S0360: 2, H0574: 2, T0060: 2, H0318: 2, L0163: 2, H0328: 2, L0483: 2, H0591: 2, L0637: 2, L0646: 2, L0771: 2, L0521: 2, L0649: 2, L0803: 2, L0657: 2, L0656: 2, L0517: 2, L0789: 2, H0539: 2, H0521: 2, L0742: 2, L0439: 2, L0751: 2, L0747: 2, L0752: 2, L0592: 2, L0599: 2, L0594: 2, L0362: 2, H0556: 1, H0167: 1, H0685: 1, H0344: 1, H0650: 1, S0116: 1, S0418: 1, S0420: 1, S0356: 1, S0376: 1,						
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HADFS31	1040388	681	440 - 832	2856	Ser-23 to Ser-34, Lys-48 to Glu-53, Cys-78 to Asn-88, Ala-108 to Asp-113, Glu-124 to Pro-131.	H0519: 1, H0593: 1, H0682: 1, H0658: 1, S0328: 1, H0518: 1, H0694: 1, H0626: 1, S0028: 1, L0743: 1, L0740: 1, L0745: 1, L0750: 1, L0780: 1, H0445: 1, L0588: 1, L0593: 1, L0595: 1, S0026: 1, H0423: 1 and S0424: 1.		
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HJDBC89	1040569	682	1418 - 726	2857	Gly-11 to Pro-17, Ser-61 to Gly-68, Val-103 to Leu-108, His-157 to Pro-162, Glu-197 to Pro-203, Gly-207 to Thr-213.	L0789: 1, L0666: 1, L0663: 1, H0690: 1, H0659: 1, H0670: 1, S0328: 1, S0028: 1, L0747: 1 and L0752: 1. L0439: 5, L0749: 5, L0770: 4, L0764: 4, L0438: 4, S0126: 4, L0758: 4, S0358: 3, L0768: 3, L0774: 3, L0783: 3, H0660: 3, S0152: 3, L0752: 3, L0755: 3, L0731: 3, L0592: 3, S0026: 3, H0656: 2, S0360: 2, S0010: 2, H0050: 2, H0169: 2, T0042: 2, L0775: 2, L0518: 2, L0809: 2, L0664: 2, L0665: 2, H0672: 2, L0754: 2, H0543: 2, L0615: 1, H0686: 1, S0116: 1, S0420: 1, S0408: 1, T0112: 1, H0156: 1, H0575: 1, H0706: 1, H0546: 1, H0572: 1, H0123: 1, L0471: 1, H0024: 1, H0373: 1, S0388: 1, T0010: 1, H0510: 1,	14q24.1- q24.3	104311, 109150, 182600, 245200, 601208	
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HTAIX75	1040591	683	129 - 557	2858	Lys-34 to His-39.	S0003: 1, H0424: 1, H0031: 1, H0553: 1, H0165: 1, H0673: 1, H0708: 1, S0036: 1, H0040: 1, T0067: 1, H0488: 1, H0412: 1, S0039: 1, H0494: 1, H0509: 1, H0132: 1, S0144: 1, H0538: 1, H0529: 1, L0520: 1, L0800: 1, L0773: 1, L0794: 1, L0803: 1, L0804: 1, L0659: 1, L0528: 1, S0374: 1, S0148: 1, H0682: 1, H0696: 1, S0044: 1, L0748: 1, L0751: 1, L0745: 1, L0757: 1, H0445: 1, S0276: 1 and S0196: 1.		
						AR055: 14, AR033: 8, AR052: 8, AR096: 7, AR053: 7, AR061: 7, AR089: 6, AR060: 6, AR104: 3, AR039: 2 L0662: 2, L0804: 2, L0748: 2, L0439: 2, L0779: 2, S0360: 1, H0635: 1, H0457: 1, H0179: 1, L0763: 1,		

							L0646: 1, L0645: 1, L0766: 1, L0659: 1 and H0658: 1.			
HODBO29	1040620	684	3 - 413	2859			H0373: 2, H0328: 2, H0428: 2, L0769: 2, L0439: 2, T0002: 1, S0376: 1, H0489: 1, S0278: 1, H0550: 1, H0253: 1, H0052: 1, H0063: 1, H0131: 1, L0764: 1, L0766: 1, L0352: 1, S0126: 1, S0380: 1, L0740: 1, L0747: 1, L0752: 1, L0592: 1, L0595: 1 and H0542: 1.			
HOCOF27	1040631	685	76 - 687	2860			H0264: 1, L0766: 1, H0660: 1 and H0539: 1.			
HSPSE88	1040694	686	2 - 922	2861			L0749: 7, S0026: 6, H0616: 4, L0766: 4, L0803: 4, L0665: 4, L0748: 4, L0740: 4, H0624: 3, H0170: 3, H0657: 3, S0358: 3, S0003: 3, L0455: 3, L0498: 3, L0809: 3, L0666: 3, H0659: 3, H0423: 3, S0442: 2, H0083: 2, H0038: 2, L0500: 2, L0764: 2,	11p15	108985, 186921, 602092	

	L0499: 2, L0804: 2, L0775: 2, L0806: 2, L0509: 2, L0607: 2, L0657: 2, L0493: 2, L0513: 2, H0690: 2, L0602: 2, L0777: 2, L0752: 2, L0759: 2, L0600: 2, H0171: 1, H0713: 1, H0716: 1, L0002: 1, H0650: 1, H0341: 1, S0001: 1, H0638: 1, S0444: 1, S0408: 1, S0222: 1, H0486: 1, H0156: 1, L0021: 1, H0042: 1, H0253: 1, H0263: 1, H0544: 1, H0545: 1, H0271: 1, S0336: 1, S0022: 1, S0214: 1, H0328: 1, H0615: 1, H0428: 1, L0483: 1, H0673: 1, H0124: 1, S0036: 1, H0090: 1, H0040: 1, H0063: 1, H0551: 1, T0067: 1, T0041: 1, H0647: 1, L0520: 1, L0761: 1, L0800: 1, L0374: 1, L0662: 1, L0768: 1, L0381: 1, L0533: 1,					
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HSKXM78	1040826	687	1 - 354	2862	Pro-19 to Asn-26, His-58 to Pro-63.			H0556: 2, H0650: 1, S0376: 1, S0474: 1, H0038: 1, H0529: 1, H0683: 1, S3014: 1, S0206: 1, L0740: 1 and L0591: 1.		
HNLMB92	1040913	688	352 - 753	2863	Ala-1 to Gly-21, Pro-28 to Gln-35.			S0358: 8, S0010: 5, S3014: 5, S0126: 4, H0333: 3, T0067: 3, H0547: 3, L0747: 3, S0045: 2, H0486: 2, H0599: 2, S0346: 2, L0471: 2, H0428: 2,	X	



HE8ON57	1040925	689	577 - 149	2864	Pro-18 to Asp-25.	H0616: 2, H0658: 2, S0028: 2, L0742: 2, H0170: 1, S0116: 1, H0449: 1, S0418: 1, S6026: 1, H0550: 1, S0222: 1, H0438: 1, T0040: 1, H0013: 1, H0156: 1, T0082: 1, H0196: 1, H0251: 1, H0530: 1, H0150: 1, H0023: 1, H0266: 1, H0687: 1, H0615: 1, T0006: 1, H0031: 1, H0068: 1, H0551: 1, H0100: 1, T0041: 1, S0150: 1, H0652: 1, S0144: 1, H0529: 1, L0543: 1, H0144: 1, S0374: 1, H0691: 1, H0520: 1, H0689: 1, H0684: 1, H0670: 1, H0660: 1, H0672: 1, H0539: 1, S3012: 1, S0027: 1, L0744: 1, L0754: 1, L0749: 1, L0750: 1, L0752: 1, L0755: 1, L0731: 1, L0757: 1 and S0194: 1.		
						H0619: 1, H0013: 1, L0794: 1 and L0788: 1.		

HOCOC14	1040932	690	494 - 1384	2865	Leu-32 to Lys-43, Phe-92 to Arg-98, Glu-118 to Thr-136, Pro-173 to Tyr-178, Pro-215 to Asn-222, Leu-230 to Asn-235.	H0556: 8, L0758: 7, L0593: 7, H0542: 7, L0601: 6, L0747: 5, H0618: 4, H0620: 4, H0617: 4, H0494: 4, L0439: 4, L0751: 4, S0420: 3, S0046: 3, H0622: 3, H0087: 3, L0766: 3, H0690: 3, H0670: 3, S0328: 3, L0748: 3, L0754: 3, L0731: 3, H0543: 3, H0265: 2, H0650: 2, H0484: 2, H0255: 2, S0418: 2, H0549: 2, H0333: 2, H0024: 2, H0551: 2, S0150: 2, L0764: 2, L0662: 2, L0375: 2, L0663: 2, L0665: 2, H0660: 2, H0521: 2, S0146: 2, L0741: 2, L0779: 2, L0361: 2, L0603: 2, H0422: 2, H0170: 1, S0040: 1, H0295: 1, H0294: 1, H0657: 1, H0656: 1, H0341: 1, S0212: 1, H0661: 1, S0442: 1, S0354: 1, S0360: 1, L0717: 1,	19q13.1	164731, 172400, 172400, 180901, 180901, 221770, 248600, 600918, 602716
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HOGDP49	1041049	691	1 - 489	2866	Pro-6 to Gly-12, Ala-30 to Arg-35, Arg-90 to Thr-102, Phe-112 to Asp-120, Asn-157 to Thr-163.		H0265: 2, H0556: 1, S0418: 1, S0376: 1, T0060: 1, S0280: 1, H0615: 1, H0628: 1, H0059: 1, H0100: 1, L0438: 1, S0126: 1, H0435: 1 and H0660: 1.			
HOFMK22	1041070	692	3 - 359	2867	Asp-22 to Val-42, Phe-50 to Tyr-55, Leu-65 to Gln-70.		H0415: 2			
HBGNT69	1041900	693	808 - 383	2868	Glu-20 to Ser-27, Ala-49 to Pro-55, Phe-66 to Asp-71, Ala-77 to Val-83, Pro-85 to Tyr-103, Pro-135 to Ala-142.		H0052: 3, H0617: 3, H0135: 3, H0012: 2, H0253: 1, S0210: 1, L0659: 1 and L0779: 1.			
HSPSI42	1042462	694	3684 - 283	2869	Pro-5 to Ser-12,		L0666: 16, L0751: 15, Xp11.23			300047,

Arg-20 to Lys-35, Gly-45 to Gly-56, Pro-81 to Cys-99, Arg-195 to Ser-207, Ser-287 to Pro-292, Thr-301 to Gly-306, Asn-336 to Met-341, Ser-357 to Arg-364, Cys-416 to Asp-430, Gln-450 to Asp-455, Pro-509 to Thr-516, Arg-523 to Gly-529, Lys-541 to Lys-546, Ser-623 to Arg-634, Tyr-636 to Gln-642, Asp-661 to Leu-671, Glu-692 to Lys-703, Gln-734 to Tyr-742, Thr-792 to Ile-798, Pro-806 to Thr-811, Phe-875 to Gly-880, Ser-886 to Gln-891, Val-897 to Glu-903, Glu-926 to Asn-932, Arg-945 to Asp-950, Pro-952 to Lys-958, Gly-991 to Gly-1001, Pro-1019 to Trp-	L0596: 8, S0010: 7, L0754: 7, L0731: 7, L0758: 7, L0595: 7, S0007: 6, L0741: 6, L0591: 6, H0556: 5, H0622: 5, L0662: 5, L0665: 5, L0743: 5, L0748: 5, L0745: 5, L0747: 5, H0657: 4, L0771: 4, L0663: 4, L0664: 4, H0689: 4, L0742: 4, L0439: 4, L0592: 4, L0362: 4, S0276: 4, H0661: 3, H0176: 3, H0545: 3, H0178: 3, H0424: 3, L0369: 3, L0766: 3, L0659: 3, H0547: 3, S0406: 3, L0750: 3, L0599: 3, L0361: 3, L0601: 3, H0543: 3, T0049: 2, H0484: 2, S0420: 2, S0360: 2, L0717: 2, H0370: 2, H0333: 2, H0635: 2, H0318: 2, H0196: 2, H0085: 2, H0546: 2, H0050: 2, T0010: 2, H0428: 2, H0213: 2, H0674: 2, H0591: 2,	300071, 300110, 300600, 301000, 301000, 301830, 309470, 309500, 309610, 309850, 311050, 312060
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1028, Lys-1082 to Met- 1091, Val-1098 to Gly- 1104, Cys-1116 to Glu- 1122.	H0100: 2, S0142: 2, L5575: 2, L0372: 2, L0764: 2, L0774: 2, L0775: 2, L0378: 2, L0776: 2, L0657: 2, L0636: 2, H0144: 2, L0565: 2, H0690: 2, H0660: 2, S014: 2, S0028: 2, L0746: 2, L0749: 2, L0752: 2, L0753: 2, S0436: 2, L0588: 2, L0608: 2, S0026: 2, H0352: 2, H0395: 1, H0713: 1, L0785: 1, H0483: 1, S0418: 1, S0442: 1, H0733: 1, H0208: 1, S0045: 1, H0393: 1, H0351: 1, S0278: 1, H0549: 1, L0622: 1, T0039: 1, H0250: 1, H0618: 1, T0048: 1, H0581: 1, H0596: 1, L0040: 1, H0597: 1, H0544: 1, L0041: 1, H0086: 1, N0006: 1, H0620: 1, H0057: 1, H0051: 1, S0051: 1, H0083: 1, H0594: 1, H0188: 1, H0039: 1,
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HPDQD23	1042649	695	174 - 344	2870	Leu-17 to Glu-22, Pro-44 to Gly-51.		H0657: 4, H0687: 2, H0658: 2, H0422: 2, H0222: 1, H0581: 1, S0050: 1, H0412: 1, H0641: 1, H0538: 1, L0648: 1, L0662: 1, L0766: 1, L0775: 1, L0805: 1, L0809: 1, L0438: 1, H0689: 1, S0328: 1, H0525: 1, L0439: 1 and L0755: 1.			
HWMBA10	1042859	696	39 - 476	2871	Pro-18 to Pro-24, Thr-45 to Gly-54, Ser-60 to Ser-67, Ala-82 to His-92, Pro-94 to Ser-106, Pro-126 to Arg-133.		S0410: 52, H0617: 5, L0774: 4, S0408: 3, H0360: 3, H0486: 3, L0809: 3, S0380: 3, L0751: 3, L0749: 3, L0361: 3, S0358: 2, S0376: 2, S0360: 2, L0764: 2, L0779: 2, L0752: 2, H0484: 1, H0483: 1, S0442: 1, H0734: 1, H0370: 1, H0257: 1, L0623: 1, H0599: 1, H0575: 1,	12q22	147440, 201470, 235800, 273300	



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HACNG39	1042871	697	2534 - 900	2872	Asp-16 to Ser-25, Arg-52 to Lys-74, Ile-102 to Asn-109, Asp-138 to Gly-149, Ser-161 to Thr-168, Asn-225 to Arg-235, Asn-247 to Lys-256, His-302 to Cys-311, Ile-324 to Ser-347, Cys-355 to Tyr-361, Cys-365 to Pro-375, Ile-389 to Gln-398, Ile-429 to His-502, Thr-505 to Asp-533, Lys-539 to Ser-545.	L0805: 5, L0766: 4, H0341: 3, S0440: 3, H0650: 2, H0656: 2, H0156: 2, S0003: 2, H0591: 2, H0264: 2, H0560: 2, L0598: 2, S0374: 2, L0438: 2, L0749: 2, L0752: 2, H0423: 2, H0685: 1, H0449: 1, H0458: 1, L0005: 1, S0444: 1, S0408: 1, H0580: 1, H0619: 1, H0486: 1, H0013: 1, H0581: 1, H0194: 1, T0103: 1, H0083: 1, H0551: 1, H0477: 1, H0488: 1,		

HETKL27	1042951	698	32 - 676	2873	Arg-11 to Gly-36.	S0464: 1, L0773: 1, L0803: 1, L0776: 1, L0657: 1, L0789: 1, L0665: 1, H0547: 1, H0670: 1, S3012: 1, L0748: 1, L0779: 1, L0777: 1, L0758: 1, S0436: 1, S0194: 1 and H0422: 1. AR089: 1, AR060: 1, AR055: 1, AR096: 1, AR053: 0, AR061: 0, AR033: 0, AR104: 0, AR039: 0 L0439: 19, H0046: 11, L0659: 8, L0752: 7, L0662: 6, H0435: 6, H0648: 6, L0803: 5, S0356: 4, S0440: 4, L0794: 4, L0663: 4, H0539: 4, S0152: 4, L0747: 4, L0779: 4, H0661: 3, S0360: 3, S0408: 3, H0598: 3, L0809: 3, L0665: 3, S0374: 3, L0438: 3, L0751: 3, L0731: 3, L0362: 3, H0171: 2, S0358: 2, S0376: 2, H0676: 2, H0393: 2,		
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HOC PK85	1043351	700	1216 - 305	2875				H0647: 1, H0646: 1, H0652: 1, S0344: 1, S0002: 1, L0598: 1, H0529: 1, L0520: 1, L0645: 1, L0773: 1, L0521: 1, L0626: 1, L0766: 1, L0649: 1, L0522: 1, L0653: 1, L0654: 1, L0379: 1, L0657: 1, L0559: 1, L0526: 1, L0782: 1, L0382: 1, L0519: 1, L0647: 1, S0052: 1, H0144: 1, H0435: 1, H0658: 1, H0672: 1, S0378: 1, S0152: 1, H0523: 1, H0187: 1, H0627: 1, H0631: 1, S0028: 1, S0032: 1, L0759: 1, S0260: 1, S0434: 1, L0608: 1, H0668: 1, H0665: 1, H0136: 1, S0192: 1, S0196: 1, S0424: 1, S0462: 1, H0506: 1, H0293: 1 and H0352: 1.	19q12-q13.1	164731, 172400, 172400, 180901,
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HVVB94	1043532	701	1 - 852	2876	Lys-1 to Cys-12, Gln-51 to Leu-56, Asp-63 to Asn-70, Lys-75 to Gln-80, Pro-116 to Thr-122, Gly-181 to Gly-190, Asp-210 to Gly-218,	S0422: 1, S0426: 1, L0763: 1, L0638: 1, L0796: 1, L0761: 1, L0667: 1, L0372: 1, L0800: 1, L0642: 1, L0804: 1, L0774: 1, L0775: 1, L0651: 1, L0633: 1, L0657: 1, L0558: 1, L0526: 1, L0384: 1, L0666: 1, L0664: 1, L0665: 1, H0520: 1, H0519: 1, H0593: 1, H0689: 1, H0659: 1, S0328: 1, S0380: 1, H0518: 1, S0152: 1, H0522: 1, H0134: 1, S3012: 1, S0390: 1, L0749: 1, L0780: 1, L0757: 1, S0031: 1, S0436: 1, L0595: 1, S0026: 1, H0653: 1, H0665: 1 and H0543: 1.	11q21-q22	105580, 133780, 203100, 203100, 602574, 602574
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Thr-252 to Ile-268, Leu-274 to Lys-284.	H0657: 4, H0125: 4, L0655: 4, L0666: 4, S0358: 3, H0486: 3, H0014: 3, H0648: 3, L0602: 3, H0255: 2, H0602: 2, H0039: 2, H0622: 2, H0264: 2, L0763: 2, L0766: 2, L0774: 2, L0806: 2, L0776: 2, L0665: 2, H0672: 2, S0328: 2, H0134: 2, H0555: 2, L0743: 2, H0671: 1, H0402: 1, H0638: 1, S0007: 1, H0592: 1, H0250: 1, H0635: 1, H0599: 1, H0108: 1, H0004: 1, H0597: 1, H0231: 1, H0046: 1, H0169: 1, H0316: 1, T0042: 1, H0646: 1, L0762: 1, L0800: 1, L0767: 1, L0768: 1, L0387: 1, L5574: 1, L0527: 1, L0657: 1, L0634: 1, L0809: 1, L0792: 1, L0663: 1, H0690: 1, H0682: 1, H0435: 1, H0659: 1, S0378: 1, H0694: 1,
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HVVBC43	1043553	702	2754 - 2083	2877	Arg-3 to Thr-10, Arg-26 to Gly-42, Asn-46 to Ser-59, Glu-106 to Ala-122, Ser-129 to Asp-139, Thr-144 to Thr-156, Leu-197 to Thr-206, Pro-208 to Tyr-219.	L0747: 1, L0749: 1, L0779: 1, L0755: 1, S0308: 1 and H0506: 1. L0717: 10, L0748: 9, L0439: 8, H0623: 7, H0052: 6, H0013: 5, L0776: 5, L0438: 5, L0740: 5, H0521: 4, L0756: 4, H0265: 3, H0556: 3, S0360: 3, L0010: 3, H0620: 3, L0662: 3, L0665: 3, H0522: 3, S0116: 2, S0418: 2, S0358: 2, S0046: 2, H0635: 2, H0575: 2, H0590: 2, S0010: 2, L0109: 2, L0471: 2, H0428: 2, H0622: 2, H0031: 2, H0038: 2, H0264: 2, H0059: 2, S0015: 2, H0641: 2, L0770: 2, L0769: 2, L0773: 2, L0774: 2, L0655: 2, L0659: 2, L0789: 2, S0126: 2, S0037: 2, L0744: 2, L0747: 2, L0779: 2, L0758: 2, L0601: 2, H0170: 1, H0686: 1, S0040: 1,	4p16.3	134934, 134934, 134934, 134934, 134934, 143100, 180072, 180072, 194190, 252800, 252800, 252800, 600965
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HTPDM31	1044199	703	1010 - 3	2878	Ser-49 to Leu-55, Pro-151 to Asp-157, Ala-168 to Arg-184, Pro-191 to Pro-215, Pro-232 to Pro-240, Pro-255 to Arg-268.	H0520: 1, H0519: 1, H0682: 1, H0659: 1, H0672: 1, S0328: 1, H0539: 1, S0152: 1, H0555: 1, H0626: 1, S0314: 1, S0028: 1, L0751: 1, L0786: 1, L0777: 1, L0731: 1, L0757: 1, L0759: 1, H0667: 1, H0542: 1, H0422: 1 and H0677: 1.		
HSQEK12	1044577	704	35 - 439	2879	Ala-1 to Asp-16.	H0617: 6, L0666: 3, H0188: 2, H0181: 2, H0196: 1, H0039: 1, H0673: 1, L0373: 1, L0775: 1, L0659: 1, L0809: 1, L0789: 1, L0663: 1, L0665: 1, H0658: 1, S0330: 1, S0378: 1 and S0406: 1. L0748: 5, L0439: 5, L0751: 3, L0777: 3, L0758: 2, L0596: 2, L0603: 2, S0001: 1, S0278: 1, H0581: 1, H0052: 1, H0123: 1, H0620: 1, S0388: 1, H0628: 1, H0040: 1, H0616: 1, H0646: 1, L0763: 1, L0770: 1,		

HPDRZ16	1044618	705	187 - 834	2880	Pro-16 to Ala-22, Ala-26 to Val-31, Ser-66 to Val-73, Ala-80 to Pro-90, Glu-127 to Ala-135, Glu-142 to Glu-161, Leu-166 to Trp-173, Pro-176 to Gln-183, Arg-204 to Asp-211.	L0769: 1, L0800: 1, L0794: 1, L0803: 1, L0378: 1, L0776: 1, L0655: 1, L0789: 1, H0670: 1, S0328: 1, H0696: 1, S0406: 1, H0436: 1, L0746: 1, L0779: 1, S0031: 1, L0595: 1, S0011: 1 and S0026: 1.	Xq13.1	304040, 305100, 305450, 309605, 312760, 314250, 314580
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HVCBC44	1044635	706	3 - 896	2881	Ala-1 to Gln-8, Lys-18 to Arg-23, Lys-56 to Val-64, Lys-129 to Ala-140, Pro-149 to Asn-155.	H0666: 70, L0766: 3, L0665: 3, H0596: 2, L0794: 2, L0747: 2, H0624: 1, H0656: 1, L0717: 1, H0013: 1, H0318: 1, H0169: 1, L0643: 1, L0645: 1, L0764: 1, L0804: 1, L0657: 1, H0660: 1, L0757: 1, L0588: 1, L0592: 1, L0595: 1 and L0601: 1.				
HPIAC22	1044711	707	701 - 1741	2882		L0745: 23, L0770: 2, S0150: 1, L0761: 1,				

HSODA53	1044741	708	855 - 995	2883				L0788: 1, H0520: 1, L0746: 1, L0747: 1, L0758: 1 and L0759: 1. AR055: 11, AR060: 6, AR033: 5, AR052: 4, AR061: 4, AR104: 4, AR096: 4, AR089: 4, AR039: 3, AR053: 3 H0328: 2, H0124: 2, L0766: 2, H0171: 1, L0005: 1, S0360: 1, H0329: 1, H0615: 1, H0477: 1, S0440: 1, L0598: 1, H0547: 1, S0126: 1, S0168: 1 and H0595: 1.		
HE9ML74	1044760	709	3 - 959	2884	Asp-8 to Asp-20, Phe-43 to Arg-52, Ser-102 to Asp-107, His-109 to Asp-124, Phe-131 to Lys-136, Pro-143 to Pro-149, Lys-189 to Leu-200, Asn-305 to Trp-310.			AR033: 5, AR060: 4, AR096: 4, AR089: 2, AR053: 1, AR061: 1, AR052: 1, AR055: 0, AR104: 0 L0803: 9, L0758: 7, L0439: 6, L0740: 5, L0766: 4, L0666: 4, L0663: 4, L0754: 4, L0747: 4, L0804: 3, H0144: 3, L0750: 3, L0756: 3, L0752: 3, L0600: 3, S0003: 2, L0455: 2, S0366: 2,		

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HPDRB76	1044762	710	145 - 855	2885	Glu-14 to Gly-20, Gly-30 to Ala-37, Glu-121 to Leu-127, Lys-152 to Tyr-157, Glu-159 to Thr-173, Leu-177 to Lys-186.	H0651: 1, S0013: 1, H0696: 1, H0436: 1, L0779: 1, L0608: 1, S0446: 1 and H0506: 1.  L0747: 8, S0358: 6, L0766: 5, L0774: 5, L0750: 5, L0666: 4, S0406: 4, L0731: 4, H0341: 3, H0696: 3, L0748: 3, L0758: 3, H0650: 2, S0356: 2, S0410: 2, L0717: 2, H0014: 2, L0667: 2, L0768: 2, L0775: 2, L0659: 2, L0783: 2, H0659: 2, H0648: 2, S0330: 2, H0539: 2, L0742: 2, L0439: 2, L0745: 2, L0757: 2, L0759: 2, L0592: 2, L0599: 2, L0595: 2, H0657: 1, S0212: 1, H0662: 1, H0125: 1, S0420: 1, S0354: 1, S0444: 1, S0132: 1, S0476: 1, H0370: 1, L0181: 1, H0069: 1, H0427: 1, L0021: 1, H0575: 1, H0318: 1, S0214: 1, H0039: 1,	1p34	130500, 133200, 138140, 168360, 171760, 171760, 176100, 176100, 178300, 230000, 255800
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HSYDI55	1044769	711	231 - 1070	2886	Thr-52 to Glu-63, Lys-108 to Asn-118, Gly-148 to Ile-154, Glu-178 to Thr-183, Ala-185 to Arg-195, Lys-202 to Lys-207, Lys-209 to Arg-222, Ser-226 to Glu-233.	AR052: 16, AR053: 9, AR033: 5, AR089: 4, AR096: 3, AR060: 3, AR104: 2, AR055: 2, AR039: 1, AR061: 1 H0651: 11, L0794: 8, H0038: 5, L0805: 4, L0758: 4, S0358: 3, S0476: 3, L0766: 3, L0803: 3, L0665: 3, H0144: 3, H0521: 3, L0748: 3, L0740: 3, L0756: 3, H0222: 2,		
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HOGCI31	1044821	712	49 - 558	2887				H0435: 1 and S0424: 1.			
HNOKX86	1044893	713	69 - 575	2888				L0740: 20, L0754: 14, L0742: 9, L0771: 7, L0748: 7, L0749: 7, L0752: 6, S0422: 5, L0770: 5, H0585: 4, S0360: 4, H0581: 4, L0769: 4, L0775: 4, S0374: 4, H0521: 4, L0747: 4, L0779: 4, L0753: 4, L0758: 4, H0295: 3, S0278: 3, S0440: 3, S0002: 3, L0649: 3, L0806: 3, S0126: 3, S0380: 3, S0434: 3, S0436: 3, S0026: 3, H0170: 2, H0661: 2, S0358: 2, S0045: 2, H0370: 2, H0442: 2, H0318: 2, S0474: 2, H0687: 2, S0003: 2, H0551: 2, S0438: 2, H0509: 2,			

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HTPHG81	1045117	714	2112 - 577	2889	Thr-19 to Ala-26.	S0150: 1, H0646: 1, S0144: 1, S0142: 1, H0529: 1, L0762: 1, L0763: 1, L0371: 1, L0796: 1, L0637: 1, L0521: 1, L0768: 1, L0805: 1, L0655: 1, L0515: 1, L0526: 1, L0809: 1, L0528: 1, L0788: 1, L0792: 1, L0666: 1, L0663: 1, L0665: 1, H0144: 1, L0438: 1, H0690: 1, H0683: 1, H0684: 1, H0670: 1, S0330: 1, S0152: 1, H0704: 1, H0134: 1, S0406: 1, H0478: 1, H0727: 1, S0206: 1, L0591: 1, H0136: 1, H0216: 1, S0196: 1, H0542: 1, H0543: 1, H0423: 1, L0697: 1, S0424: 1 and S0384: 1.		
						AR039: 19, AR053: 13, AR096: 10, AR052: 9, AR055: 9, AR033: 9, AR089: 8, AR104: 7, AR060: 7, AR061: 6		

HPCTV49	1045379	715	34 - 444	2890	Ser-21 to Pro-28, Pro-36 to Ser-63, Gln-67 to Thr-83, Arg-88 to Thr-94, Pro-106 to Lys-111, Gly-125 to Gly-132.	H0553: 2, S0282: 1, S0049: 1, H0052: 1, H0622: 1, H0040: 1 and S0406: 1. S0358: 17, S0360: 7, L0604: 7, L0769: 5, L0497: 5, L0655: 5, L0590: 4, H0543: 4, L0622: 3, L0499: 3, L0775: 3, H0659: 3, H0670: 3, L0757: 3, L0588: 3, L0601: 3, S0276: 3, S0114: 2, H0657: 2, S0007: 2, H0586: 2, T0109: 2, T0048: 2, H0327: 2, L0471: 2, H0494: 2, L0770: 2, L0662: 2, L0527: 2, L0513: 2, L0530: 2, H0144: 2, H0689: 2, H0672: 2, H0521: 2, L0750: 2, L0755: 2, L0731: 2, L0596: 2, L0599: 2, L0608: 2, L0440: 1, T0049: 1, H0341: 1, H0483: 1, H0125: 1, H0580: 1, S0045: 1, H0351: 1, H0411: 1, S0222: 1, L0623: 1,		
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HHGDK68	1045464	716	121 - 999	2891	Arg-128 to Asp-133, Lys-155 to Gln-164, Tyr-168 to Leu-174, Glu-190 to Leu-197, Pro-213 to Arg-224, Met-226 to Ser-241, Pro-247 to Ser-255.	L0361: 1, S0026: 1, H0667: 1 and H0542: 1.	22q13.1	103050, 103050, 124030, 124030, 138981, 182380, 188826, 190040, 190040, 190040	
HNOKM38	1045500	717	5155 - 3530	2892	Gln-12 to His-23.	L0731: 21, L0747: 17, L0776: 16, L0748: 14, L0777: 14, L0752: 13, L0755: 13, L0769: 11, L0750: 11, L0766: 10, L0806: 8, L0770: 7, H0556: 5, L0599: 5, L0774: 4, L0756: 4, L0779: 4, L0753: 4, H0341: 3, L0761: 3, L0764: 3, L0771: 3, L0809: 3, H0144: 3, L0743: 3, L0754: 3, L0757: 3, H0265: 2, S0134: 2, H0306: 2, H0402: 2, H0580: 2, H0393: 2, H0369: 2, H0441: 2, H0013: 2,			

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HHFUN47	1045842	718	4701 - 2335	2893	Glu-98 to Asp-109, Ser-121 to Ile-128.	L0805: 1, L0606: 1, L0657: 1, L0659: 1, L0528: 1, L0532: 1, L0664: 1, L0665: 1, S0330: 1, S0027: 1, L0740: 1, L0745: 1, L0749: 1, L0758: 1, H0445: 1, L0608: 1, L0595: 1, L0601: 1, S0242: 1, S0276: 1, H0542: 1, H0543: 1, H0423: 1, H0506: 1 and L0600: 1.		
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HNTSV18	1045995	719	1 - 504	2894	Ala-3 to Gly-19, Arg-29 to Gly-34, Gly-41 to Pro-51, Tyr-90 to Gly-102, Pro-119 to Trp-124.	H0492: 1, H0486: 1, T0082: 1, H0004: 1, S0010: 1, H0242: 1, L0471: 1, H0510: 1, H0039: 1, H0622: 1, H0553: 1, H0090: 1, H0038: 1, H0040: 1, H0616: 1, H0059: 1, H0654: 1, H0538: 1, S0426: 1, L0637: 1, L0761: 1, L0667: 1, L0794: 1, L0560: 1, L0804: 1, L0776: 1, L0666: 1, H0144: 1, S0374: 1, H0519: 1, H0593: 1, S0122: 1, H0684: 1, H0666: 1, S0330: 1, H0539: 1, S0152: 1, H0521: 1, H0522: 1, L0747: 1, L0779: 1, L0758: 1, L0590: 1, L0591: 1, S0192: 1, S0194: 1 and H0422: 1.	7q21-q22	116860, 126650, 126650, 129900, 133170, 154276,
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HWHGU08	1046137	720	2564 - 1749	2895	Ala-43 to Thr-51, Gly-104 to Arg-112.	S0412: 19, L0803: 10, S0003: 9, S0414: 6, L0770: 6, L0766: 6, L0663: 6, L0754: 6, S0406: 5, L0752: 5, S0222: 4, L0771: 4, H0144: 4, L0439: 4, L0731: 4, S0444: 3, L0717: 3, H0328: 3, L0662: 3, L0655: 3, S0330: 3, H0521: 3, L0748: 3, L0759: 3, H0556: 2, S0356: 2, S0354: 2, H0676: 2, S0408: 2, H0013: 2, H0575: 2, H0050: 2, H0266: 2, S0214: 2, H0428: 2, H0031: 2, H0674: 2, T0067: 2, L0764: 2, L0806: 2, L0805: 2, L0809: 2, L0666: 2, L0664: 2, L0665: 2, H0547: 2, H0435: 2, H0659: 2,	10p11.2-p12	600964, 602026	



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HE6CR19	1046177	721	870 - 508	2896	Val-3 to Gly-14, Ser-65 to Asn-70.	S0422: 1, S0426: 1, H0529: 1, L0762: 1, L0769: 1, L0796: 1, L0761: 1, L0667: 1, L0772: 1, L0641: 1, L0642: 1, L0643: 1, L0773: 1, L0804: 1, L0775: 1, L0653: 1, L0659: 1, L0783: 1, L0790: 1, T0068: 1, H0519: 1, H0658: 1, H0696: 1, S0206: 1, L0747: 1, L0749: 1, L0755: 1, L0758: 1, H0445: 1, S0436: 1, L0592: 1, H0668: 1, S0026: 1, H0653: 1, H0667: 1, H0136: 1, H0542: 1, S0424: 1 and S0446: 1.	2p22-p21	120435, 120435, 126600, 135300, 136435, 152790, 152790, 157170, 182601, 278300.
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HE9EJ82	1046856	722	3 - 173	2897	Glu-12 to Phe-17, Ser-44 to Asn-57.	H0659: 1, S0330: 1, S0380: 1, L0602: 1, H0710: 1, S0027: 1, L0753: 1, L0757: 1, L0759: 1, L0480: 1, H0665: 1, S0276: 1, H0422: 1 and S0384: 1. L0747: 7, H0144: 6, L0748: 6, L0758: 6, L0666: 5, L0750: 5, L0755: 5, S0360: 4, L0646: 4, L0375: 4, L0776: 4, S0358: 3, H0013: 3, H0024: 3, H0087: 3, L0761: 3, L0764: 3, L0775: 3, L0513: 3, L0809: 3, L0532: 3, L0565: 3, L0751: 3, L0752: 3, L0731: 3, L0588: 3, H0170: 2, T0049: 2, S0116: 2, H0255: 2, S0420: 2, S0280: 2, L0471: 2, H0620: 2, H0083: 2, L0483: 2, H0617: 2, L0769: 2, L0637: 2, L0643: 2, L0662: 2, L0497: 2, L0774: 2, L0655: 2, L0657: 2, L0783: 2,	1q21-q23	104770, 107300, 107670, 110700, 131210, 134638, 135940, 136132, 145001, 146740, 146740, 146740, 146790, 152445, 152445, 159001, 173610, 174000, 176310, 179755, 182860, 182860, 182860,
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HRADC23	1046980	723	49 - 339	2898					S0250: 2 and H0555: 1.					106165, 117700, 117700, 150210, 169600, 180380, 180380, 180380, 190000, 203500, 232050,
HODHS68	1047137	724	516 - 1220	2899	Thr-26 to Ala-44, Pro-55 to His-71, Ser-76 to Cys-83, Asn-92 to Lys-104, Pro-149 to Tyr-158, Ser-208 to Asp-214, Glu-228 to Tyr-234.				L0748: 40, L0740: 39, 3q21 L0754: 23, H0556: 19, H0620: 13, L0755: 12, L0731: 12, L0741: 11, S0002: 10, L0766: 10, L0439: 10, H0265: 9, H0013: 9, H0521: 9, L0747: 9, L0758: 8, H0599: 7, L0794: 7, L0751: 7, L0779: 7, L0777: 7, L0752: 7,					

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HOPKT59	1047169	725	275 - 814	2900	Gln-1 to Gln-11, Ala-24 to Asp-33, Pro-81 to Arg-91, Lys-99 to Lys-115, Trp-126 to Arg-142, Asp-162 to Glu-180.	L0588: 1, L0599: 1, L0362: 1, L0361: 1, S0276: 1, H0542: 1, S0384: 1 and H0293: 1. H0556: 15, H0090: 12, S0152: 11, H0543: 10, H0553: 9, S0026: 9, H0341: 8, S0358: 8, H0046: 8, S0440: 8, L0659: 8, L0665: 8, L0595: 8, H0657: 7, H0266: 7, H0591: 7, H0529: 7, L0666: 7, L0663: 7, H0144: 7, H0547: 7, H0521: 7, L0756: 7, L0731: 7, S0360: 6, S0476: 6, S0003: 6, H0615: 6, H0644: 6, H0040: 6, H0413: 6, L0662: 6, L0664: 6, L0754: 6, L0752: 6, L0599: 6, L0608: 6, H0624: 5, S0408: 5, T0109: 5, H0013: 5, H0551: 5, H0560: 5, L0803: 5, L0655: 5, H0519: 5, S0126: 5, H0684: 5, L0439: 5, L0759: 5, S0436: 5, H0542: 5,		
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HMCFK45	1047212	726	121 - 786	2901	Pro-15 to Leu-21,	S0142: 1, S0422: 1, L0598: 1, L0631: 1, L0638: 1, L0641: 1, L0764: 1, L0773: 1, L0648: 1, L0363: 1, L0767: 1, L0768: 1, L5574: 1, L0381: 1, L0552: 1, L0774: 1, L0375: 1, L0607: 1, L0634: 1, L0782: 1, S0428: 1, S0374: 1, H0593: 1, H0689: 1, H0435: 1, H0660: 1, H0666: 1, H0648: 1, H0672: 1, S0380: 1, H0709: 1, S0013: 1, H0696: 1, H0704: 1, S0174: 1, S0406: 1, H0436: 1, H0576: 1, H0478: 1, S0432: 1, S3012: 1, S0028: 1, L0777: 1, L0755: 1, L0480: 1, L0597: 1, L0589: 1, L0591: 1, L0592: 1, L0594: 1, L0362: 1, L0601: 1, H0668: 1, H0667: 1, H0136: 1, S0194: 1 and H0008: 1.	L0747: 10, L0758: 6,
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					Lys-29 to Asn-39, Arg-110 to Arg-115, Lys-120 to Asn-125, Glu-153 to Leu-158, Pro-173 to Val-181.	L0752: 5, L0774: 4, L0663: 4, L0748: 4, L0751: 4, L0775: 3, L0757: 3, L0759: 3, S0360: 2, S0007: 2, H0687: 2, L0769: 2, L0761: 2, L0766: 2, L0806: 2, L0750: 2, L0777: 2, L0753: 2, L0755: 2, H0254: 1, S0420: 1, S0356: 1, H0392: 1, H0587: 1, L0021: 1, H0046: 1, H0178: 1, H0620: 1, S0050: 1, H0617: 1, H0673: 1, H0616: 1, S0144: 1, S0344: 1, L0637: 1, L0646: 1, L0374: 1, L0771: 1, L0767: 1, L0661: 1, L0629: 1, L0659: 1, L0783: 1, L0367: 1, L0368: 1, L0666: 1, L0664: 1, L0665: 1, H0670: 1, H0672: 1, S0404: 1, H0436: 1, L0740: 1, L0749: 1, L0603: 1, H0422: 1, S0424: 1 and H0677: 1.			
HPIAN63	1047381	727	2 - 595	2902	Lys-1 to Leu-6,	L0777: 13, L0794: 8,			



		Ser-36 to Ser-41, Arg-54 to His-63.	L0438: 7, L0748: 7, L0659: 6, L0759: 6, L0591: 6, H0617: 5, L0439: 5, L0779: 5, L0758: 5, L0596: 5, H0556: 4, H0618: 4, H0052: 4, L0770: 4, L0803: 4, L0789: 4, S0418: 3, H0013: 3, H0628: 3, H0494: 3, L0598: 3, L0769: 3, L0804: 3, L0509: 3, L0665: 3, H0659: 3, H0624: 2, H0265: 2, H0717: 2, S0442: 2, S0354: 2, S0358: 2, L0149: 2, S0046: 2, S0278: 2, H0559: 2, S0010: 2, S0049: 2, L0041: 2, H0050: 2, H0083: 2, H0328: 2, UNKWN: 2, H0529: 2, L0662: 2, L0776: 2, L0655: 2, H0670: 2, H0660: 2, S0406: 2, L0747: 2, L0749: 2, L0752: 2, L0731: 2, S0436: 2, L0594: 2, H0542: 2, H0170: 1, H0171: 1, H0657: 1,		
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L0785: 1, H0384: 1, H0671: 1, H0663: 1, L0534: 1, S0356: 1, S0444: 1, S0408: 1, H0549: 1, S0222: 1, H0643: 1, H0632: 1, S0414: 1, H0257: 1, H0486: 1, T0082: 1, T0048: 1, H0318: 1, S0474: 1, H0194: 1, H0263: 1, H0327: 1, H0544: 1, H0546: 1, H0046: 1, H0057: 1, L0163: 1, H0051: 1, S0051: 1, T0010: 1, H0266: 1, H0188: 1, L0052: 1, H0288: 1, S0003: 1, H0604: 1, H0644: 1, H0068: 1, H0316: 1, S0036: 1, H0040: 1, H0164: 1, H0413: 1, H0059: 1, H0100: 1, L0564: 1, H0625: 1, S0448: 1, S0440: 1, S0150: 1, L0637: 1, L0373: 1, L0800: 1, L0374: 1, L0765: 1, L0771: 1, L0766: 1, L0649: 1, L0378: 1, L0805: 1,						
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HNSME49	1047403	728	1295 - 558	2903	Glu-16 to Gly-28, Glu-73 to Glu-78, Asp-94 to Ser-103, Lys-124 to Asp-129, Gln-149 to Arg-155, Ala-190 to Ser-233, Val-240 to Pro-246.	L0794: 6, H0685: 2, S0356: 2, H0090: 2, H0494: 2, L0766: 2, L0803: 2, L0654: 2, L0665: 2, H0435: 2, L0362: 2, H0556: 1, H0384: 1, H0484: 1, S0418: 1, H0497: 1, H0013: 1, S0010: 1, S0346: 1, S0049: 1, H0545: 1, H0375: 1, H0674: 1, L0455: 1, H0413: 1, L0639: 1, L0800: 1, L0376: 1,		

HWEAC64	1047473	729	155 - 721	2904	Glu-17 to Val-22, Val-29 to Asn-38, Gly-60 to Val-67, Gln-84 to Glu-93, Lys-106 to Leu-115, Gln-118 to Gln-123, Lys-152 to Val-159.			L0378: 1, L0805: 1, L0657: 1, L0659: 1, L0783: 1, L0809: 1, L0789: 1, L0663: 1, L0664: 1, S0374: 1, H0520: 1, S0126: 1, H0666: 1, H0539: 1, S0152: 1, S0037: 1, L0756: 1, L0779: 1, L0777: 1, L0755: 1, S0436: 1, L0592: 1 and H0506: 1.		
								AR104: 1, AR033: 1, AR089: 1, AR053: 0, AR096: 0, AR061: 0, AR039: 0, AR052: 0, AR060: 0, AR055: 0 H0694: 29, H0703: 13, H0683: 10, H0717: 7, H0713: 6, H0542: 6, H0687: 4, H0656: 3, H0685: 2, H0716: 2, H0688: 2, H0695: 2, S0428: 2, H0689: 2, H0684: 2, H0521: 2, H0580: 1, H0601: 1, H0592: 1, H0708: 1, S0150: 1, H0699: 1, H0519: 1, H0709: 1, H0522: 1, H0555: 1,		

HOCQI51	1047483	730	3 - 1016	2905	Gln-15 to Phe-20, Ser-49 to Tyr-54, Glu-111 to Glu-121, Arg-185 to Asp-190, Phe-206 to Asp-212, Glu-309 to Pro-314.	S0028: 1, H0707: 1 and H0543: 1.  L0794: 8, H0556: 4, H0046: 4, L0809: 3, L0748: 3, H0341: 2, S0356: 2, S0046: 2, H0100: 2, L0769: 2, L0659: 2, S0328: 2, L0742: 2, H0422: 2, H0265: 1, T0002: 1, S0418: 1, S0420: 1, S0354: 1, S0045: 1, L0717: 1, H0549: 1, S0222: 1, H0586: 1, H0156: 1, T0110: 1, H0150: 1, S0051: 1, H0594: 1, H0266: 1, S0250: 1, H0604: 1, S0364: 1, H0634: 1, H0412: 1, H0494: 1, H0561: 1, H0695: 1, H0529: 1, L0761: 1, L0667: 1, L0772: 1, L0643: 1, L0764: 1, L0771: 1, L0768: 1, L0766: 1, L0803: 1, L0629: 1, L0368: 1, L0788: 1, H0690: 1, H0682: 1, H0660: 1, S0152: 1, S0404: 1,		
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HOPKE15	1047634	731	3 - 434	2906	Met-18 to Tyr-45, Arg-56 to Thr-65, Gln-89 to Glu-107, Pro-109 to Ala-132.	L0747: 1, L0755: 1, H0445: 1 and H0542: 1.  H0046: 9, L0766: 8, L0731: 4, S0360: 3, S0408: 3, H0529: 3, L0769: 3, L0608: 3, H0543: 3, H0656: 2, H0341: 2, S0046: 2, S0010: 2, H0318: 2, H0616: 2, S0150: 2, S0002: 2, L0803: 2, L0659: 2, S0374: 2, H0684: 2, S0328: 2, L0750: 2, L0752: 2, L0759: 2, H0170: 1, S0134: 1, H0657: 1, H0637: 1, H0580: 1, H0486: 1, T0040: 1, T0109: 1, L0021: 1, H0575: 1, H0581: 1, H0052: 1, H0266: 1, H0188: 1, S0214: 1, H0328: 1, H0615: 1, H0428: 1, H0039: 1, H0553: 1, H0598: 1, H0163: 1, H0591: 1, H0038: 1, H0040: 1, T0067: 1, H0413: 1, S0464: 1, S0440: 1, L0598: 1, L0772: 1,		
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HMAEL73	1047646	732	748 - 2463	2907	Pro-41 to Gln-47, Thr-169 to Glu-174, Gly-252 to Glu-259, Pro-343 to Ser-348, Asn-379 to Ala-384, His-425 to Glu-432, Asn-505 to Asn- 511, Arg-516 to Phe-522.	L0758: 6, L0731: 4, L0747: 3, S0342: 2, L0769: 2, L0768: 2, L0749: 2, L0615: 1, H0686: 1, H0125: 1, S0418: 1, S0354: 1, S0358: 1, S0360: 1, S0222: 1, H0613: 1, H0004: 1, H0510: 1, S6028: 1, H0615: 1, H0039: 1, H0494: 1, S0144: 1, L0762: 1,				

							L0388: 1, L0775: 1, L0789: 1, H0689: 1, H0435: 1, H0648: 1, S0152: 1, L0744: 1, L0745: 1, L0755: 1 and H0423: 1.		
HNOKE42	1047663	733	2 - 445	2908	Arg-1 to Tyr-7, Arg-17 to Arg-23, Glu-40 to Phe-45, Thr-64 to Tyr-71, Arg-117 to Glu-127, Arg-141 to Ser-148.		H0551: 4, H0494: 4, H0561: 3, H0529: 3, H0521: 3, H0486: 2, L0471: 2, H0373: 2, H0510: 2, H0687: 2, H0553: 2, H0708: 2, H0560: 2, H0509: 2, L0794: 2, L0774: 2, H0547: 2, H0519: 2, H0539: 2, L0439: 2, L0754: 2, L0777: 2, H0685: 1, S0282: 1, S0418: 1, H0637: 1, H0485: 1, H0156: 1, H0530: 1, T0010: 1, S6028: 1, T0023: 1, H0212: 1, T0042: 1, L0763: 1, L0637: 1, L0768: 1, L0805: 1, L0530: 1, L0787: 1, S0148: 1, H0435: 1, H0670: 1, H0660: 1, H0710: 1, H0518: 1, H0522: 1, H0704: 1,		



								S0176: 1, L0748: 1, L0749: 1, L0731: 1 and L0758: 1.			
HOFAE31	1047670	734	2 - 220	2909			Glu-1 to Leu-8, Arg-38 to Cys-49.	H0414: 2			
HCLCX62	1047716	735	129 - 437	2910			Ala-1 to Leu-7, Ser-18 to Lys-23.	S0136: 25, L0665: 4, S0001: 1, H0662: 1, H0632: 1, H0594: 1, H0188: 1, H0598: 1, H0379: 1, S0294: 1, L0764: 1, L0521: 1, L0803: 1, L0805: 1, L0493: 1, L0514: 1, L0515: 1, L0659: 1, H0689: 1, H0683: 1, H0670: 1, H0672: 1, S0328: 1, H0539: 1, H0478: 1, L0777: 1, L0731: 1 and L0599: 1.			
HNOAC93	1047820	736	826 - 554	2911			Pro-12 to Pro-20, Leu-24 to Ser-31, Pro-34 to Pro-82, Arg-84 to Pro-91.	AR053: 18, AR089: 16, AR096: 15, AR033: 14, AR039: 12, AR060: 11, AR104: 11, AR055: 10, AR061: 6 H0251: 6, H0412: 2, H0295: 1, S0114: 1, H0657: 1, H0255: 1, H0663: 1, H0619: 1, S0222: 1, H0392: 1, H0333: 1, H0486: 1,	16p13.3	141750, 141800, 141800, 141800, 141800, 141850, 141850, 141850, 141850, 141850, 156850,	

HMEJA45	1047848	737	1 - 399	2912	Phe-4 to Arg-11, Ala-16 to Ser-22, Cys-31 to Cys-39.	H0635: 1, H0318: 1, H0050: 1, H0051: 1, S0388: 1, S0051: 1, H0239: 1, H0688: 1, H0644: 1, H0181: 1, H0617: 1, H0606: 1, S0438: 1, L0769: 1, L0761: 1, L0803: 1, H0547: 1, S0126: 1, H0658: 1, H0672: 1, H0651: 1, S0404: 1, S0406: 1, H0436: 1, L0748: 1, L0751: 1 and S0276: 1.			186580, 191092, 600140, 600273, 601313, 601785
						AR060: 5, AR061: 3, AR104: 3, AR089: 3, AR096: 2, AR055: 2 S0206: 5, H0413: 3, S0028: 3, H0170: 2, S0212: 2, H0546: 2, H0266: 2, H0171: 1, S0040: 1, H0580: 1, H0208: 1, H0411: 1, H0437: 1, H0453: 1, H0427: 1, H0051: 1, S0051: 1, H0355: 1, S0003: 1, H0031: 1, H0412: 1, S0188: 1, S0390: 1, S3014: 1, S0027: 1 and S0031: 1			

HLDAS11	1047937	738	224 - 958	2913	Asn-33 to Glu-41, Ala-58 to Ser-69, Ser-77 to Pro-84, Pro-97 to Pro-102, Ile-121 to Gln-128.	H0693: 636, H0637: 29, H0551: 16, L0748: 11, L0777: 7, H0069: 5, L0666: 4, L0157: 3, H0641: 3, L0766: 3, L0665: 3, L0758: 3, H0510: 2, H0615: 2, H0509: 2, L0663: 2, H0521: 2, L0751: 2, L0755: 2, H0542: 2, H0650: 1, H0657: 1, S0356: 1, S0376: 1, S0360: 1, H0431: 1, H0013: 1, H0618: 1, S0010: 1, H0581: 1, T0001: 1, H0052: 1, H0251: 1, H0596: 1, H0373: 1, H0083: 1, H0271: 1, S0250: 1, S0003: 1, S0214: 1, H0622: 1, H0553: 1, H0674: 1, H0038: 1, H0040: 1, H0272: 1, H0059: 1, T0041: 1, H0646: 1, L0598: 1, L0662: 1, L0768: 1, L0649: 1, L0774: 1, L0805: 1, L0776: 1, L0657: 1, L0517: 1, L0382: 1, L0791: 1,		
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							H0144: 1, S0126: 1, H0690: 1, H0658: 1, H0648: 1, S0152: 1, S0146: 1, L0743: 1, L0439: 1, L0754: 1, L0749: 1, S0260: 1 and L0366: 1.			
HWMB31	1048009	739	202 - 732	2914	Ile-1 to Thr-7, Glu-16 to Glu-33, Leu-37 to Ala-46, Leu-69 to Glu-80, Tyr-89 to Gln-111, Ser-121 to Cys-128, Pro-135 to Glu-156, Glu-162 to Thr-177.		S0358: 1			
HAZAA31	1048188	740	1480 - 185	2915			L0593: 16, L0591: 12, H0543: 9, L0667: 8, L0751: 8, H0581: 7, H0457: 7, H0617: 7, L0659: 7, S0418: 6, S0046: 6, H0494: 6, S0206: 6, S0116: 5, H0341: 5, H0402: 5, S0222: 5, H0271: 5, L0766: 5, H0521: 5, S0027: 5, L0740: 5, L0749: 5, L0595: 5, S0360: 4, H0486: 4, S0280: 4, H0024: 4, H0551: 4, L0372: 4,	3p14.3	150250, 164500, 277730, 600971, 601226	

L0666: 4, H0519: 4, H0542: 4, H0656: 3, S0420: 3, S0356: 3, S0045: 3, H0052: 3, H0545: 3, H0050: 3, H0620: 3, S0051: 3, H0553: 3, H0135: 3, T0042: 3, L0475: 3, S0344: 3, L0769: 3, L0654: 3, L0663: 3, H0520: 3, S3014: 3, L0439: 3, L0777: 3, S0192: 3, S0424: 3, H0265: 2, H0556: 2, S0040: 2, H0657: 2, H0484: 2, S0376: 2, H0580: 2, S0007: 2, H0333: 2, H0575: 2, T0048: 2, H0421: 2, S0049: 2, H0046: 2, L0041: 2, H0266: 2, H0615: 2, L0483: 2, H0087: 2, H0413: 2, H0059: 2, H0561: 2, H0509: 2, L0771: 2, L0649: 2, L0775: 2, L0375: 2, L0809: 2, L0665: 2, H0144: 2, L0565: 2, L0438: 2, H0658: 2, H0555: 2,					
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	S0037: 2, L0741: 2, L0748: 2, L0754: 2, L0745: 2, L0757: 2, L0758: 2, H0445: 2, L0596: 2, L0599: 2, L0601: 2, T0002: 1, H0686: 1, S0402: 1, H0294: 1, T0049: 1, S0212: 1, S0001: 1, H0483: 1, H0669: 1, H0661: 1, H0663: 1, H0662: 1, H0306: 1, S0442: 1, S0358: 1, H0637: 1, S0140: 1, H0619: 1, H0393: 1, L0717: 1, S0278: 1, H0611: 1, H0610: 1, H0357: 1, H0613: 1, H0592: 1, H0497: 1, H0559: 1, H0256: 1, H0013: 1, H0427: 1, S0010: 1, S0346: 1, S0182: 1, H0318: 1, S0474: 1, H0172: 1, H0123: 1, L0471: 1, S0388: 1, T0010: 1, H0179: 1, H0687: 1, H0288: 1, H0284: 1, H0252: 1, H0428: 1, H0628: 1, H0181: 1,				
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HOCMC83	1048300	741	56 - 1465	2916	Gln-116 to Trp-124,	H0606: 1, L0055: 1, H0124: 1, H0090: 1, H0040: 1, T0067: 1, H0412: 1, H0100: 1, H0560: 1, H0130: 1, H0647: 1, H0646: 1, S0142: 1, S0210: 1, S0002: 1, H0529: 1, L0535: 1, L0770: 1, L0638: 1, L0796: 1, L0637: 1, L0643: 1, L0374: 1, L0764: 1, L0773: 1, L0662: 1, L0768: 1, L0774: 1, L0378: 1, L0658: 1, L0383: 1, L0382: 1, L0791: 1, L0664: 1, S0126: 1, H0689: 1, H0690: 1, H0682: 1, H0435: 1, H0670: 1, H0660: 1, H0666: 1, L0355: 1, S0378: 1, L0602: 1, H0134: 1, H0436: 1, L0750: 1, L0755: 1, S0031: 1, S0436: 1, L0608: 1, S0026: 1, H0653: 1, H0665: 1, H0667: 1, H0217: 1 and H0352: 1.		
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HCFCs40	1048427	742	2 - 1330	2917	Leu-21 to Gly-27, Pro-73 to Leu-83.	Glu-154 to Glu-161, Glu-270 to Asn-278, Glu-360 to Trp-371, Asp-440 to Asp-445, Ser-450 to Leu-456.	L0758: 5, L0766: 4, H0620: 3, H0038: 3, L0794: 3, S0358: 2, H0687: 2, H0135: 2, L0508: 2, L0809: 2, L0787: 2, L0665: 2, H0520: 2, L0439: 2, H0650: 1, H0657: 1, S0222: 1, H0574: 1, H0318: 1, H0581: 1, S0049: 1, H0545: 1, H0566: 1, H0622: 1, H0033: 1, H0181: 1, H0617: 1, H0165: 1, H0264: 1, H0059: 1, L0564: 1, H0561: 1, S0150: 1, H0647: 1, L0769: 1, L0644: 1, L0768: 1, L0774: 1, L0375: 1, L0806: 1, L0509: 1, L0514: 1, L0510: 1, L0789: 1, L0438: 1, H0435: 1, H0660: 1, H0648: 1, H0696: 1, H0436: 1, H0627: 1 and L0731: 1.	3p21.3	116806, 120120, 120120, 120120.
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AR052: 62, AR104: 48, AR096: 33, AR039: 25	S0474: 21, H0683: 7, L0748: 7, H0251: 6, L0777: 5, S0422: 4, L0764: 4, L0766: 4, L0740: 4, L0754: 4, S0418: 3, H0046: 3, H0553: 3, H0521: 3, L0779: 3, L0752: 3, L0731: 3, L0757: 3, H0422: 3, H0713: 2, H0717: 2, H0733: 2, S0476: 2, H0441: 2, H0575: 2, H0428: 2, H0494: 2, L0659: 2, L0666: 2, H0547: 2, H0519: 2, L0439: 2, L0745: 2, L0749: 2, L0756: 2, L0758: 2, L0485: 2, S0026: 2, S0384: 2, H0716: 1, S0212: 1, H0661: 1, S0356: 1, S0444: 1, S0045: 1, S0046: 1, S0132: 1, H0645: 1, H0406: 1, S6022: 1, H0431: 1, H0587: 1, H0486: 1, T0040: 1,	120436, 120436, 120436, 138320, 168468, 182280, 600163
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HVCAA65	1048595	743	1042 - 212	2918	Trp-1 to Gly-10, Gly-22 to Gly-29, Leu-82 to Val-88, Ala-116 to His-123,	S0440: 12, H0543: 11, H0341: 7, L0775: 6, L0591: 6, L0770: 5, L0766: 5, L0750: 5;		

Lys-144 to Phe-156, Phe-167 to Thr-181, Glu-202 to Asp-207, Glu-262 to Ser-277.	L0759: 5, L0588: 5, H0542: 5, S0360: 4, S0045: 4, H0486: 4, H0012: 4, S0372: 4, S0144: 4, L0755: 4, L0731: 4, L0758: 4, L0596: 4, S0114: 3, H0657: 3, S0132: 3, H0640: 3, H0545: 3, H0266: 3, H0413: 3, H0494: 3, L0598: 3, H0529: 3, L0521: 3, L0364: 3, L0657: 3, L0783: 3, L0809: 3, L0666: 3, L0665: 3, H0547: 3, H0519: 3, S0126: 3, H0659: 3, H0670: 3, L0777: 3, S0436: 3, L0595: 3, H0395: 2, H0265: 2, T0049: 2, H0484: 2, H0402: 2, H0125: 2, S0418: 2, S0408: 2, S0410: 2, H0580: 2, T0109: 2, H0575: 2, H0581: 2, H0546: 2, H0373: 2, H0510: 2, H0708: 2, H0412: 2, H0396: 2, L0763: 2, L0769: 2, L0774: 2,				
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HPSI76	1048635	744	85 - 1578	2919	Phe-1 to Pro-12, Asp-182 to Pro-188,	H0071: 1, H0355: 1, H0687: 1, S0022: 1, H0039: 1, T0006: 1, H0031: 1, H0628: 1, H0135: 1, H0038: 1, H0087: 1, H0264: 1, T0042: 1, S0016: 1, H0560: 1, H0509: 1, H0633: 1, H0649: 1, S0142: 1, S0344: 1, S0208: 1, S0422: 1, L0520: 1, L0762: 1, L3904: 1, L0667: 1, L0771: 1, L0768: 1, L0381: 1, L0784: 1, L0652: 1, L0559: 1, L0636: 1, L0540: 1, L0518: 1, L0384: 1, S0374: 1, H0723: 1, H0690: 1, H0660: 1, H0648: 1, S0380: 1, S0152: 1, H0521: 1, H0522: 1, H0555: 1, S0392: 1, S0027: 1, S0028: 1, S0206: 1, L0743: 1, L0779: 1, L0780: 1, L0753: 1, H0707: 1 and H0712: 1.	5q31	121050, 131400,
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					Arg-215 to Tyr-224, Gly-240 to Lys-247, Pro-279 to Gly-286, Leu-295 to Glu-308, Pro-326 to Tyr-331, Thr-343 to Arg-349, Tyr-354 to Ala-360, Lys-369 to Asp-375, Ser-426 to Asp-432.	H0295: 2, H0628: 2, L0776: 2, S014: 2, L0439: 2, S0212: 1, S0418: 1, S0420: 1, H0734: 1, S0046: 1, S0476: 1, H0497: 1, T0040: 1, H0544: 1, H0545: 1, H0024: 1, S0003: 1, H0644: 1, H0038: 1, H0040: 1, H0413: 1, S0294: 1, H0633: 1, S0144: 1, L0372: 1, L0805: 1, L0654: 1, L5623: 1, L4501: 1, H0144: 1, L0438: 1, S0126: 1, H0683: 1, H0672: 1, H0539: 1, H0521: 1, H0631: 1, S0037: 1, S0434: 1, L0588: 1, L0599: 1, L0601: 1 and H0665: 1.	H0295: 2, H0628: 2, L0776: 2, S014: 2, L0439: 2, S0212: 1, S0418: 1, S0420: 1, H0734: 1, S0046: 1, S0476: 1, H0497: 1, T0040: 1, H0544: 1, H0545: 1, H0024: 1, S0003: 1, H0644: 1, H0038: 1, H0040: 1, H0413: 1, S0294: 1, H0633: 1, S0144: 1, L0372: 1, L0805: 1, L0654: 1, L5623: 1, L4501: 1, H0144: 1, L0438: 1, S0126: 1, H0683: 1, H0672: 1, H0539: 1, H0521: 1, H0631: 1, S0037: 1, S0434: 1, L0588: 1, L0599: 1, L0601: 1 and H0665: 1.	138040, 153455, 159000, 179095, 181460, 192974, 192974, 600807, 601596, 601692, 601692, 601692, 601692, 602089, 602121, 602460
HVVCH35	1048658	745	1107 - 91	2920	Ser-45 to Pro-51.	L0769: 5, L0759: 4, H0402: 3, S0376: 3, H0424: 3, L0749: 3, S0222: 2, L0535: 2, L0774: 2, L0806: 2, L0384: 2, L0666: 2, H0265: 1, S0218: 1, H0484: 1, S0354: 1,	22q13.33	

HOFNI66	1048739	746	3 - 710	2921	Thr-1 to Asp-9, Gly-18 to Ser-24, Asn-35 to Arg-42, Trp-49 to Asp-62, Ser-69 to Ala-74, Arg-155 to Trp-167,	S0444: 1, S0360: 1, S0007: 1, H0392: 1, H0559: 1, H0486: 1, T0039: 1, T0060: 1, L0021: 1, H0004: 1, H0581: 1, H0052: 1, H0194: 1, H0204: 1, H0024: 1, H0405: 1, H0617: 1, H0606: 1, H0090: 1, H0272: 1, H0494: 1, S0438: 1, S0422: 1, S0002: 1, L0770: 1, L0772: 1, L0372: 1, L0641: 1, L0645: 1, L0771: 1, L0768: 1, L0794: 1, L0381: 1, L0775: 1, L0789: 1, H0547: 1, H0659: 1, H0658: 1, H0672: 1, H0521: 1, S0406: 1, H0727: 1, L0744: 1, L0779: 1, L0758: 1, H0445: 1, H0423: 1 and H0422: 1.		
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721



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HMSKI90	1048792	747	1432 - 1770	2922				H0560: 1, H0561: 1, S0352: 1, S0382: 1, S0150: 1, S0344: 1, S0210: 1, L0763: 1, L0769: 1, L0638: 1, L0637: 1, L5565: 1, L0772: 1, L0372: 1, L0800: 1, L0648: 1, L0662: 1, L0767: 1, L0768: 1, L0806: 1, L0655: 1, L0629: 1, L0658: 1, L0517: 1, L0526: 1, L0529: 1, L0532: 1, H0698: 1, H0520: 1, H0547: 1, H0519: 1, H0690: 1, H0682: 1, H0659: 1, H0658: 1, H0670: 1, H0539: 1, S0380: 1, S0152: 1, H0521: 1, H0704: 1, H0478: 1, S0314: 1, S0032: 1, L0749: 1, L0750: 1, L0756: 1, L0757: 1, H0445: 1, S0434: 1, L0608: 1, H0668: 1, S0194: 1 and H0423: 1.  AR096: 4, AR089: 4, AR060: 2, AR033: 2, AR104: 2, AR061: 1,		
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HSYBI49	1049151	748	2 - 805	2923			AR089: 15, AR096: 14, AR060: 12, AR039: 10, AR104: 8, AR053: 8, AR055: 4, AR033: 4, AR061: 3, AR052: 2 L0777: 17, H0521: 11, L0747: 6, L0649: 5, H0586: 4, L0664: 4, L0748: 4, L0749: 4, H0661: 3, S0132: 3, H0587: 3, H0509: 3, L0637: 3, L0662: 3, L0806: 3, L0665: 3, L0779: 3, S0358: 2, L0717: 2, T0040: 2, H0014: 2, H0494: 2, S0438: 2, L0451: 2, H0547: 2, H0435: 2, H0658: 2, H0648: 2, H0672: 2, L0602: 2, S0436: 2, H0543: 2, L0448: 1, S0476: 1, H0431: 1, H0592: 1, T0114: 1, L0021: 1, T0010: 1, H0188: 1,			

HTXSN37	1049372	749	1061 - 1864	2924	Thr-34 to Glu-47, Pro-82 to Ser-104, His-120 to Asn-126, His-129 to Pro-152, Cys-214 to Lys-220, Lys-261 to Ser-268.	S0422: 31, L0748: 16, L0803: 12, H0580: 11, H0615: 10, L0754: 9, L0596: 9, S0360: 8, L0805: 8, L0779: 8, L0663: 7, L0745: 7, S0358: 6, H0271: 6, L0766: 6, L0809: 6, S0406: 6, L0777: 6, S0007: 5, H0046: 5, H0024: 5, L0770: 5, L0761: 5, L0771: 5, L0662: 5, L0657: 5, L0666: 5, H0710: 5, H0436: 5, L0750: 5, H0542: 5, S0444: 4, S0476: 4, H0547: 4,	T0023: 1, L0483: 1, H0551: 1, S0352: 1, H0633: 1, L0763: 1, L0761: 1, L0646: 1, L0648: 1, L4500: 1, L5568: 1, L0774: 1, L0775: 1, L0525: 1, L0653: 1, L0657: 1, H0690: 1, H0684: 1, S0378: 1, H0479: 1, L0754: 1, L0755: 1, L0759: 1, L0362: 1 and S0242: 1.		
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HMUBT31	1049466	750	2 - 1429	2925	Lys-45 to Asp-54, Thr-56 to Leu-63, Gln-227 to Thr-241, Glu-287 to Val-292, Gln-331 to Gly-337, Glu-402 to Asp-411, Glu-436 to Cys-441, Glu-454 to Glu-461.	H0684: 1, S0330: 1, H0518: 1, H0522: 1, H0478: 1, S0027: 1, S0028: 1, L0743: 1, L0744: 1, L0439: 1, L0740: 1, L0749: 1, L0786: 1, L0731: 1, L0757: 1, S0260: 1, H0444: 1, H0595: 1, L0584: 1, L0605: 1, L0581: 1, L0362: 1, H0653: 1, H0136: 1, S0192: 1, H0422: 1, S0424: 1, H0008: 1 and H0352: 1.		
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HFPDO90	1049644	751	456 - 202	2926	Asp-74 to His-85.		S0134: 1, S0222: 1, L0774: 1, L0776: 1 and L0366: 1.	5q31	121050, 131400, 138040, 153455, 159000, 179095, 181460, 192974, 192974, 600807, 601596, 601692, 601692, 601692, 601692, 602089, 602121, 602460	
HVVCB79	1050102	752	195 - 1205	2927	Glu-29 to Cys-39, Val-46 to Ser-52, Asn-58 to Gly-65, Cys-68 to His-82, Tyr-84 to Gly-94,		L0659: 19, S0476: 18, H0271: 18, S0152: 15, H0521: 12, L0666: 7, S0132: 6, H0494: 5, L0754: 5, L0601: 5,	10q24	157640, 174900, 180250, 186770, 236730,	

				Leu-122 to Trp-138, S0360: 4, L0771: 4, Ala-158 to Leu-170, L0653: 4, L0751: 4, Gly-175 to Arg-182, H0295: 3, H0486: 3, Tyr-203 to Ser-210, H0635: 3, H0416: 3, Gly-246 to Met-258, H0615: 3, L0662: 3, Arg-288 to Gln-296, S0428: 3, L0748: 3, L0747: 3, L0731: 3, H0661: 2, S0376: 2, H0437: 2, H0587: 2, H0485: 2, T0039: 2, H0318: 2, H0545: 2, H0620: 2, H0266: 2, H0090: 2, H0623: 2, L0763: 2, L0646: 2, L0642: 2, L0774: 2, L0775: 2, L0378: 2, L0806: 2, L0664: 2, S0374: 2, H0519: 2, S0406: 2, L0439: 2, L0779: 2, L0755: 2, L0604: 2, L0698: 2, H0149: 1, H0686: 1, H0713: 1, S0212: 1, H0255: 1, S0408: 1, H0637: 1, S0046: 1, H0411: 1, S0278: 1, H0599: 1, H0251: 1, H0457: 1, H0024: 1, H0014: 1, H0328: 1, H0553: 1, H0644: 1,				271245, 278000, 278000, 600095, 600512, 601107, 601130, 602082
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HDPGR19	1050167	753	2 - 670	2928	Ala-32 to Arg-48, Cys-138 to Ser-147, Lys-161 to Glu-166, Pro-179 to Asn-189.	AR055: 2, AR033: 1, AR089: 1, AR060: 1, AR096: 1, AR039: 0, AR061: 0, AR052: 0, AR053: 0 H0521: 36, L0754: 20, L0748: 13, L0740: 12, L0439: 9, S0440: 8, H0522: 8, L0777: 8, H0580: 7, H0641: 7, L0659: 7, S0126: 7, S0436: 7, H0638: 6,		

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HVVDX63	1050256	754	2483 - 1299	2929		Ala-1 to Ser-19, Gln-50 to Ala-69, Lys-113 to Lys-120, Thr-132 to Trp-147, Glu-162 to Gly-172, Leu-185 to Ser-219, Thr-226 to Tyr-234, Pro-288 to Pro-304, Glu-312 to Lys-324, Cys-344 to Gly-355.	H0556: 10, L0758: 9, L0777: 7, H0422: 7, H0271: 6, H0265: 5, H0179: 5, H0634: 5, L0747: 5, L0766: 4, L0664: 4, L0751: 4, H0542: 4, H0423: 4, H0657: 3, S0476: 3, H0069: 3, H0641: 3, L0761: 3, H0555: 3, H0436: 3, L0757: 3, H0222: 2, S0132: 2, H0486: 2, H0553: 2, H0551: 2, L0631: 2, L0769: 2, L0667: 2, L0772: 2, L0662: 2, L0378: 2, L0809: 2, S0052: 2, H0658: 2, H0672: 2, S0328: 2, H0518: 2, L0749: 2, L0750: 2, H0445: 2, L0596: 2, L0362: 2, H0653: 2, H0220: 1, H0713: 1, S0218: 1,			



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HNOJA87	1050282	755	616 - 2415	2930	Ser-35 to Glu-40, Leu-43 to Lys-63, Gln-88 to Tyr-97, Gln-156 to Glu-161, Val-218 to Phe-223, Ser-229 to Cys-237, Phe-323 to Ala-332, Phe-334 to Ser-339, Glu-357 to Gly-362, Ser-382 to Pro-391, Ser-403 to His-411, Asp-414 to Leu-425, Pro-429 to Arg-444, Ser-481 to Asn-486, Asp-495 to Lys-503, Asn-508 to Leu-514, Lys-528 to Ser-544, Asp-565 to Tyr-576, Leu-578 to Gly-584, Lys-591 to Asn-600.	L0731: 1, S0196: 1 and H0506: 1.  L0758: 8, L0439: 7, S0003: 6, L0602: 6, L0665: 5, S0330: 5, H0521: 5, L0755: 5, L0731: 5, L0483: 4, L0598: 4, L0766: 4, L0775: 4, L0666: 4, L0748: 4, H0423: 4, H0170: 3, H0580: 3, H0441: 3, H0687: 3, S0022: 3, L0659: 3, H0144: 3, H0547: 3, L0740: 3, L0751: 3, L0596: 3, H0411: 2, H0250: 2, S0280: 2, H0575: 2, H0051: 2, H0083: 2, H0031: 2, UNKWN: 2, L0763: 2, L0776: 2, L0664: 2, S0148: 2, L0438: 2, H0660: 2, S0328: 2, S0380: 2, L0747: 2, L0777: 2, L0590: 2, L0592: 2, L0581: 2, L0594: 2, L0362: 2, S0194: 2, H0624: 1, T0002: 1, H0140: 1, H0685: 1, S0040: 1,	2q31	100690, 120180, 120180, 120180, 120180, 120190, 142989, 156232, 178600, 266100, 600258, 600321
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HTPGI65	1050419	756	56 - 1273	2931	Ser-55 to Thr-60, Glu-97 to Ser-103, Thr-164 to Glu-170, Gly-192 to Gly-197, Leu-204 to Ser-218, Ala-238 to Ser-250, Asp-265 to Tyr-292, Gly-298 to Gly-307, Gly-351 to Met-359, Phe-389 to Glu-400.	T0068: 1, H0684: 1, H0670: 1, S0378: 1, H0518: 1, H0696: 1, S0406: 1, H0436: 1, L0754: 1, L0750: 1, L0753: 1, L0759: 1, H0445: 1, S0434: 1, L0599: 1, L0608: 1, L0366: 1, S0026: 1, H0667: 1, S0242: 1, H0422: 1 and S0424: 1, S0444: 13, L0751: 12, S0358: 11, L0659: 11, S0436: 10, S0442: 8, S0410: 8, S0406: 8, S0434: 8, L0662: 6, H0435: 6, S0440: 5, L0657: 5, S0354: 4, T0023: 4, L0764: 4, L0771: 4, L0666: 4, H0690: 4, L0743: 4, L0754: 4, L0601: 4, H0046: 3, H0615: 3, H0617: 3, H0032: 3, H0647: 3, L0372: 3, L0665: 3, H0593: 3, L0744: 3, L0748: 3, H0663: 2, S0376: 2, S0408: 2, H0036: 2, H0622: 2, L0483: 2,	1q32.2	145260, 600759, 601975
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742

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HHFGN14	1050536	757	1791 - 2738	2932	Pro-7 to Ala-17, Pro-28 to Gln-38, Asp-58 to Ser-78, Phe-113 to Asp-120, Tyr-171 to Glu-177, Gln-237 to Gln-246.		S0280: 3, H0581: 3, H0622: 3, H0690: 3, L0751: 3, H0506: 3, S0356: 2, H0670: 2, H0254: 1, S0046: 1, H0411: 1, H0438: 1, H0600: 1, H0632: 1, H0635: 1, H0599: 1, H0009: 1, H0050: 1, H0023: 1, T0010: 1, H0375: 1, H0687: 1, H0039: 1, S0364: 1, H0509: 1, L0527: 1, S0052: 1, H0693: 1, L0438: 1, H0593: 1, H0689: 1, H0660: 1, S0378: 1, H0555: 1, S0392: 1, S0390: 1, S0037: 1 and S0196: 1.	12q13	10777, 123940, 139350, 139350, 148040, 148041, 148043, 148070, 231550, 600194, 600231, 600536, 600808, 600956, 601284, 601769, 601769, 601928, 602116, 602153	
HTAIN76	1050553	758	83 - 1300	2933	Pro-19 to Ala-25, Pro-30 to Gly-50, Arg-66 to Gly-78.		L0740: 12, L0653: 6, L0665: 6, H0150: 5, L0439: 5, H0688: 4, L0771: 4, L0659: 4,			

L0809: 4, L0751: 4, L0747: 4, L0749: 4, L0779: 4, L0601: 4, S0420: 3, H0486: 3, H0620: 3, H0494: 3, L0662: 3, L0757: 3, S0040: 2, H0662: 2, S0007: 2, H0549: 2, S0222: 2, H0009: 2, H0123: 2, H0024: 2, H0606: 2, H0634: 2, H0413: 2, H0100: 2, L0769: 2, L0794: 2, L0649: 2, L0803: 2, L0655: 2, L0382: 2, L0666: 2, L0731: 2, L0758: 2, L0759: 2, L0605: 2, H0170: 1, T0049: 1, H0663: 1, L0005: 1, S0045: 1, S0046: 1, H0619: 1, H0550: 1, S0220: 1, L0468: 1, H0587: 1, H0643: 1, H0574: 1, H0632: 1, H0635: 1, T0048: 1, H0505: 1, H0597: 1, H0546: 1, H0545: 1, H0046: 1, N0007: 1, H0188: 1, H0622: 1, T0023: 1,					
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HLYBO89	1050702	759	3 - 557	2934	Pro-1 to Thr-10, Ser-25 to Ile-46, Glu-76 to Ile-82, Ile-89 to Gly-95, Lys-109 to Glu-118, Asp-127 to Gly-132, Glu-148 to Leu-155, Glu-161 to Glu-172.	AR089: 11, AR104: 9, AR060: 6, AR096: 3, AR061: 3, AR055: 2, L0803: 7, H0024: 5, L0805: 5, L0750: 5, S0026: 5, H0208: 3, S0440: 3, L0769: 3, S0126: 3, H0670: 3, S0330: 3, S0152: 3, H0411: 2, S0222: 2, S0010: 2, H0046: 2,	Xq28	300031, 300044, 300048, 300049, 300049, 300055, 300100, 300100, 300104, 300126, 301201,
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HMEKJ82	1050767	760	1 - 597	2935	Arg-10 to Lys-24, Phe-50 to Arg-57.	L0809: 1, L0787: 1, L0665: 1, H0144: 1, S0374: 1, H0666: 1, S0380: 1, H0696: 1, S3012: 1, S0032: 1, L0747: 1, L0749: 1, L0777: 1, L0752: 1, L0753: 1, L0757: 1, S0434: 1, S0011: 1, S0276: 1 and H0542: 1. AR089: 2, AR096: 1, AR104: 1, AR060: 0, AR061: 0, AR055: 0 S0414: 6, L0754: 6, L0803: 4, H0032: 3, L0774: 3, L0665: 3, L0752: 3, S0418: 2, L0005: 2, H0580: 2, H0431: 2, H0553: 2, H0673: 2, S0422: 2, L0598: 2, L0666: 2, L0748: 2, S0436: 2, L0589: 2, L0603: 2, S0001: 1, L0717: 1, H0415: 1, H0013: 1, H0635: 1, S0280: 1, H0581: 1, S0051: 1, H0266: 1, S0214: 1, H0428: 1, H0598: 1, H0616: 1, S0438: 1,					314400
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HOFNX17	1050969	761	47 - 604	2936	Ile-13 to Gly-19, Thr-21 to Gln-28, Lys-38 to Ser-45, Glu-62 to Tyr-68, Val-72 to Gly-77, Pro-87 to Ser-93, Thr-117 to Gln-126, Gln-133 to Leu-139.				H0415: 12, H0414: 2, H0355: 1 and H0517: 1.	9q11-q22	229600, 264300, 600542, 602014, 602088
HAOSY21	1051095	762	153 - 425	2937	Asn-26 to Gly-31, Cys-44 to Asp-50, Gln-85 to Glu-91.				H0657: 2, H0686: 1, H0341: 1, L0493: 1, H0144: 1, H0689: 1, L0757: 1 and L0596: 1.		
HMWDB39	1051115	763	2 - 598	2938	Ala-1 to Gly-7, Ser-20 to Gly-36, Glu-107 to Thr-112, Glu-114 to Pro-119.				S0474: 13, L0758: 13, L0439: 11, L0754: 11, L0752: 10, H0581: 9, L0766: 9, L0740: 9, L0769: 8, H0423: 8, H0547: 7, L0750: 7,		

L0777: 7, H0013: 6, H0445: 6, L0599: 6, L0005: 5, S0358: 5, S0360: 5, S0414: 5, H0575: 5, L0776: 5, S0126: 5, H0648: 5, H0521: 5, H0171: 4, H0583: 4, H0341: 4, S0212: 4, H0580: 4, H0619: 4, H0427: 4, S0010: 4, S0346: 4, H0046: 4, H0457: 4, H0551: 4, L0763: 4, L0794: 4, L0803: 4, L0666: 4, H0522: 4, L0759: 4, H0543: 4, H0663: 3, H0638: 3, S0442: 3, S0007: 3, S0222: 3, H0244: 3, S0003: 3, H0591: 3, H0040: 3, T0042: 3, S0142: 3, H0529: 3, L0770: 3, L0637: 3, L0771: 3, L0662: 3, L0774: 3, L0805: 3, L0655: 3, L0663: 3, L0664: 3, L0665: 3, H0659: 3, H0670: 3, S0330: 3, H0539: 3, S0152: 3, H0626: 3,					
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HAOSZ53	1051246	764	2 - 403	2939	Ala-3 to Arg-8, Asp-48 to Gly-64, Asp-101 to Ser-111.	L0764: 1, L0773: 1, L0767: 1, L0387: 1, L0649: 1, L0804: 1, L0606: 1, L0661: 1, L0807: 1, L0527: 1, L0657: 1, L0659: 1, L0526: 1, L0518: 1, L0783: 1, L0809: 1, L0529: 1, L0532: 1, S0428: 1, H0701: 1, S0374: 1, L0438: 1, L0352: 1, H0593: 1, H0690: 1, H0682: 1, H0660: 1, S0328: 1, H0710: 1, H0214: 1, S0037: 1, S3014: 1, L0748: 1, L0751: 1, L0757: 1, S0031: 1, H0444: 1, S0436: 1, L0485: 1, L0608: 1, L0593: 1, L0594: 1, S0026: 1, H0136: 1, S0192: 1 and H0677: 1.	17p13	138190, 254210, 271900, 600179, 600977, 601202, 601777
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HSODP14	1051256	765	130 - 549	2940	Ala-10 to His-29.	H0686: 1, H0656: 1, H0484: 1, S0420: 1, S0356: 1, S6016: 1, H0592: 1, H0333: 1, H0427: 1, S0474: 1, H0546: 1, H0081: 1, H0050: 1, L0163: 1, H0594: 1, H0267: 1, H0124: 1, H0135: 1, H0412: 1, H0056: 1, H0059: 1, H0494: 1, H0509: 1, H0633: 1, L0521: 1, H0547: 1, S0126: 1, S0328: 1, S0330: 1, S0380: 1, H0521: 1, H0522: 1, S3014: 1, S0027: 1, L0748: 1, L0750: 1, L0731: 1, L0596: 1, H0665: 1, S0276: 1 and H0543: 1. H0596: 1, H0046: 1, H0032: 1 and H0595: 1.	2q23-q31	100690, 120180, 120180, 120180, 120180, 120180, 120190, 142989, 156232, 178600,
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								266100, 600258, 600321
HWLXZ72	1051319	766	2 - 199	2941	Pro-1 to Trp-12.		H0659: 4, L0747: 4, S0474: 3, L0777: 3, S0360: 2, L0653: 2, L0659: 2, L0756: 2, H0686: 1, H0449: 1, H0587: 1, H0413: 1, H0494: 1, S0002: 1, L0770: 1, L0662: 1, L0767: 1, L0803: 1, L0776: 1, L0655: 1, L0665: 1, L0757: 1 and S0194: 1.	
HUSGQ45	1051410	767	3 - 527	2942	Arg-17 to Gln-24, Tyr-39 to Tyr-47, Arg-50 to Leu-57, Lys-59 to Asn-66, Asn-78 to Val-91, Ser-94 to Ser-133, Thr-139 to Lys-175.		L0766: 4, H0090: 3, H0266: 2, H0529: 2, L0803: 2, L0774: 2, L0754: 2, L0747: 2, L0779: 2, L0759: 2, S0114: 1, H0583: 1, H0638: 1, S0356: 1, S0376: 1, H0676: 1, S0410: 1, H0580: 1, H0619: 1, S0222: 1, H0318: 1, H0373: 1, S0003: 1, H0328: 1, H0040: 1, H0616: 1, H0412: 1, L0772: 1, L0800: 1, L0789: 1,	

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HNOJR48	1051533	769	34 - 1377	2944		S0194: 1, H0542: 1, H0543: 1, S0384: 1 and H0506: 1. L0748: 10, L0747: 10, L0662: 9, L0596: 7, H0265: 6, L0666: 6, L0758: 6, H0081: 5, L0766: 5, L0665: 5, L0744: 5, L0750: 5, S0418: 4, H0617: 4, H0529: 4, L0659: 4, L0663: 4, H0144: 4, H0547: 4, H0657: 3, H0661: 3, S0046: 3, H0188: 3, H0687: 3, H0135: 3, H0551: 3, S0440: 3, H0647: 3, L0775: 3, L0655: 3, L0664: 3, S0406: 3, L0743: 3, L0740: 3, L0751: 3, L0731: 3, H0445: 3, L0591: 3, H0543: 3, H0423: 3, H0686: 2, S0134: 2, S0420: 2, S0358: 2, H0013: 2, H0635: 2, H0618: 2, S0010: 2, H0545: 2, N0006: 2, L0471: 2, H0622: 2, L0455: 2, H0412: 2,	6p21.3	106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550, 600202, 600261, 601868, 602280, 602475
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HKIXH35	1051883	770	2 - 994	2945	Lys-7 to Glu-27, Ser-48 to Gln-53, Gln-58 to Pro-69, Ala-84 to Tyr-93, Ala-114 to Leu-127, Ser-173 to Arg-180, Met-188 to Pro-193, Pro-200 to Leu-205, Ile-228 to Asp-233, Gln-271 to Cys-281, Glu-289 to Cys-304.	L0383: 1, L0528: 1, L0788: 1, L0791: 1, L0532: 1, H0697: 1, H0519: 1, H0593: 1, H0672: 1, H0539: 1, S0152: 1, S0404: 1, H0555: 1, H0436: 1, H0478: 1, H0479: 1, S3014: 1, S0027: 1, L0741: 1, L0745: 1, L0608: 1, L0593: 1, L0601: 1, L0603: 1, H0668: 1, S0026: 1, H0136: 1, S0192: 1 and H0506: 1.		
					L0748: 13, L0758: 5, L0749: 4, L0439: 3, H0441: 2, H0052: 2, H0090: 2, L0774: 2, L0775: 2, L0517: 2, L0666: 2, L0740: 2, L0731: 2, L0759: 2, S0134: 1, L0415: 1, H0318: 1, H0327: 1, H0563: 1, S0050: 1, H0594: 1, H0266: 1, H0252: 1, H0644: 1, H0135: 1, H0616: 1, H0264: 1, S0438: 1, L0369: 1, L0763: 1,			



HHEB192	1051903	771	67 - 2094	2946	His-152 to Lys-160, Gly-276 to Ser-281, Ser-376 to Asp-383, Arg-389 to Gly-400, Ala-512 to Ser-529, Asp-576 to Thr-581, Gly-619 to Asp-624.	L0796: 1, L0662: 1, L0804: 1, L0375: 1, L0787: 1, S0428: 1, H0593: 1, H0689: 1, H0436: 1, L0743: 1, L0754: 1 and L0603: 1.  AR089: 8, AR053: 6, AR060: 6, AR096: 5, AR039: 5, AR055: 4, AR104: 4, AR033: 4, AR061: 2, AR052: 0 H0717: 14, H0703: 14, H0699: 9, H0716: 8, H0685: 7, H0730: 7, H0688: 6, H0729: 5, H0687: 5, H0622: 4, H0424: 4, H0684: 4, H0670: 4, S0356: 3, S0376: 3, H0728: 3, L0163: 3, H0615: 3, H0039: 3, H0494: 3, H0724: 3, H0689: 3, H0683: 3, H0709: 3, H0694: 3, L0751: 3, H0624: 2, H0171: 2, H0686: 2, H0713: 2, H0663: 2, S0358: 2, H0722: 2, H0036: 2, H0100: 2, H0695: 2, H0725: 2, H0723: 2,	1q32	114208, 114208, 119300, 120620, 120620, 120920, 134370, 134370, 134370, 134580, 145260, 150310, 150310, 179820, 191045, 600105, 600759, 601494, 601975
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HPTGB84	1051953	772	793 - 200	2947		Phe-59 to Glu-68, Lys-105 to Gly-111.	H0660: 3, S0358: 2, L0755: 2, L0759: 2, H0624: 1, S0040: 1, S0342: 1, H0484: 1, H0638: 1, H0550: 1, H0486: 1, H0427: 1, H0706: 1, S0010: 1, S0182: 1, H0012: 1, H0405: 1, H0673: 1, H0488: 1, H0059: 1, T0042: 1, H0494: 1, S0150: 1, H0647: 1, S0144: 1, L0772: 1, L0766: 1, H0520: 1, H0547: 1, H0435: 1, H0214: 1, S3012: 1, L0750: 1, L0777: 1, L0758: 1, H0445: 1, L0601: 1 and S0276: 1.			
HVCCD05	1051983	773	3 - 968	2948			H0666: 440, H0660: 3, H0309: 1, L0471: 1, H0328: 1, H0383: 1, L0769: 1, L0789: 1 and S0152: 1.	17q11.2	154275, 162200, 162200, 182138, 239100, 600881, 601954,	

HPYSC40	1052158	774	2 - 583	2949	Ile-1 to Pro-10, Pro-36 to Glu-43, Arg-92 to Cys-98, Glu-106 to Lys-115, Pro-174 to Leu-179.	L0751: 11, L0777: 9, L0809: 6, H0100: 4, H0112: 3, L0783: 3, L0747: 3, H0644: 2, H0670: 2, L0755: 2, S0040: 1, H0013: 1, H0031: 1, L0794: 1, H0144: 1 and L0759: 1.	9q34	602403 125270, 125270, 128100, 137350, 191100, 215700, 223360, 268900, 601850
HDDMT56	1052261	775	155 - 844	2950	Pro-8 to Asp-23, Leu-27 to Ser-38, Thr-40 to Arg-69, Arg-73 to Asp-97, Asp-108 to Asp-126, Glu-135 to Ile-159, Pro-176 to Ala-181, Lys-184 to Asp-192, Val-202 to Arg-210, Thr-215 to His-221.	H0641: 1, L0775: 1 and H0659: 1.		
HVVAW02	1052553	776	2 - 652	2951	Ala-1 to Ala-8, Pro-26 to Tyr-32, Gly-48 to Pro-53, Asp-132 to Gly-137, Val-139 to Leu-144, Lys-165 to Gly-171, Ser-191 to Ala-198.	S0358: 6, L0748: 5, L0777: 5, H0171: 4, H0341: 4, S0408: 4, H0597: 4, H0620: 4, L0754: 4, L0749: 4, S0360: 3, H0596: 3, H0545: 3, H0494: 3, S0210: 3, L0769: 3, S0374: 3, H0659: 3,	7q21.1	129900, 154276, 171050, 171060, 602136, 602136, 602136, 602447

					S0040: 2, H0657: 2, H0661: 2, S0376: 2, S0007: 2, S0045: 2, S0046: 2, S0222: 2, H0431: 2, H0013: 2, H0530: 2, H0014: 2, H0266: 2, H0328: 2, H0644: 2, H0100: 2, L0771: 2, L0662: 2, L0803: 2, L0438: 2, H0547: 2, S0126: 2, S0330: 2, L0743: 2, L0439: 2, L0751: 2, H0445: 2, S0026: 2, S0276: 2, S0196: 2, H0265: 1, T0049: 1, S0218: 1, H0656: 1, H0638: 1, S0356: 1, S0444: 1, S0410: 1, H0580: 1, S0132: 1, H0393: 1, S0300: 1, H0586: 1, L0622: 1, H0486: 1, T0109: 1, S0280: 1, H0599: 1, S0010: 1, S0049: 1, H0204: 1, H0327: 1, H0123: 1, H0051: 1, H0275: 1, H0083: 1, H0629: 1, H0271: 1, H0188: 1, H0290: 1,				
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HOGCS42	1052557	777	223 - 852	2952	Gly-156 to Met-161, Cys-186 to Lys-197.	AR039: 7, AR052: 6, AR089: 5, AR033: 4, AR104: 3, AR053: 3, AR096: 3, AR055: 3, AR061: 3, AR060: 2 S0358: 15, H0622: 15, S0354: 14, S0360: 11, H0435: 11, S0356: 9, H0039: 9, L0666: 9, L0751: 9, H0553: 8, H0506: 8, H0689: 7, L0748: 7, H0661: 6, L0659: 6, L0665: 6, S0376: 5, L0743: 5, H0484: 4, H0483: 4, H0059: 4, L0764: 4, L0771: 4, L0662: 4, L0809: 4, S0330: 4, H0615: 3, H0688: 3, H0040: 3, L0763: 3, L0364: 3, L0774: 3, L0663: 3, H0683: 3, H0670: 3, H0672: 3, L0750: 3, L0731: 3, H0663: 2, H0549: 2, H0046: 2, H0014: 2, H0124: 2, H0494: 2, S0450: 2, L0374: 2, L0765: 2, L0804: 2, L0378: 2, L0653: 2,		
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HAZAA59	1052593	778	29 - 745	2953		S0358: 4, L0752: 4, H0012: 3, H0266: 3, L0740: 3, L0731: 3, H0615: 2, L0772: 2, L0776: 2, L0565: 2, L0605: 2, L0608: 2, L0362: 2, H0423: 2, H0556: 1, S0114: 1, S0134: 1, H0341: 1, H0255: 1, H0664: 1, H0638: 1, S0356: 1, H0676: 1, H0441: 1, H0392: 1, H0613: 1, H0333: 1, H0632: 1, L0021: 1, S0049: 1, H0251: 1, H0327: 1, H0572: 1, L0471: 1, H0271: 1, H0252: 1, T0023: 1, H0135: 1, H0591: 1, H0560: 1, S0150: 1, L0637: 1, L3904: 1, L0764: 1, L0364: 1, L0803: 1, L0661: 1, L0647: 1, L0790: 1, L0663: 1, H0144: 1, S0374: 1, H0547: 1, H0690: 1,			

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HPDRP02	1052728	779	248 - 670	2954		Pro-12 to Asp-20, Leu-30 to Glu-37, Lys-62 to Asp-70, Met-99 to Asp-109, Ala-115 to Asn-122, Gly-135 to Asp-141.		H0619: 3, H0662: 2, H0135: 1, H0593: 1 and H0658: 1.			
HMALJ21	1052874	780	623 - 1033	2955		Gly-9 to Thr-24.		L0789: 4, H0660: 2, S0278: 1, H0250: 1, T0010: 1, H0163: 1, H0551: 1, L0657: 1, L0777: 1, L0755: 1 and L0731: 1.			
HLYAR61	1053037	781	120 - 431	2956		Gln-17 to Gly-27, Glu-39 to Asp-52, Lys-79 to Asn-84.		H0341: 3, H0580: 2, S0049: 2, S0422: 2, T0049: 1, H0656: 1, S0222: 1, H0632: 1, H0486: 1, H0581: 1, H0266: 1, H0494: 1, S0438: 1, H0520: 1, H0659: 1, H0704: 1, S0406: 1, L0754: 1, L0747: 1, L0750: 1, L0752: 1, L0757: 1,			

HLTCQ80	1053164	782	2 - 562	2957		H0445: 1 and S0276: 1, H0616: 5, L0758: 4, L0362: 4, H0529: 3, L0803: 3, L0809: 3, H0592: 2, L0804: 2, L0527: 2, L0665: 2, H0547: 2, L0439: 2, L0754: 2, L0777: 2, L0485: 2, S0114: 1, H0657: 1, H0341: 1, S0420: 1, S0442: 1, S0358: 1, S0376: 1, H0675: 1, H0580: 1, H0632: 1, S0414: 1, H0013: 1, H0706: 1, H0327: 1, H0123: 1, H0428: 1, H0622: 1, H0090: 1, H0038: 1, H0551: 1, H0412: 1, S0450: 1, S0438: 1, H0647: 1, L0763: 1, L0770: 1, L0769: 1, L0761: 1, L0764: 1, L0794: 1, L0776: 1, L0659: 1, L0526: 1, L0783: 1, L0666: 1, L0663: 1, L0438: 1, H0690: 1, H0659: 1, H0670: 1, H0672: 1, H0710: 1, H0436: 1,	8q24	131950, 153840, 600669, 601282, 601455, 602232
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HDTDU67	1053171	783	485 - 697	2958	Ser-9 to Gln-19.	S0028: 1, L0779: 1 and L0731: 1. L0362: 6, H0486: 3, S0406: 3, L0809: 2, S0434: 2, H0624: 1, H0663: 1, S0376: 1, S0360: 1, H0329: 1, S0046: 1, H0586: 1, H0150: 1, L0483: 1, H0096: 1, H0124: 1, H0591: 1, S0422: 1, L0598: 1, L0369: 1, L0763: 1, L0638: 1, L0521: 1, L0662: 1, L0766: 1, L0803: 1, L0776: 1, L0655: 1, L0657: 1, L0659: 1, L0793: 1, L0666: 1, L0665: 1, L0565: 1, H0520: 1, H0519: 1, H0684: 1, H0648: 1, H0521: 1, H0696: 1, L0747: 1, L0779: 1, L0777: 1, L0752: 1, L0758: 1, L0608: 1, H0506: 1 and H0352: 1.		
HMABL01	1053173	784	210 - 1289	2959	Ala-1 to Arg-6, Gly-45 to Gly-51, Ser-53 to Lys-69, Asp-89 to Ser-100,	L0493: 10, L0748: 6, L0601: 5, H0615: 4, L0741: 4, H0052: 3, L0774: 3, L0776: 3,		

				Pro-106 to Leu-117, His-119 to Gly-124, Asp-166 to Ser-176, Ser-293 to Cys-301, Pro-306 to Cys-313, Ser-317 to Gln-327, Arg-332 to Pro-341.	L0754: 3, L0749: 3, S0222: 2, H0318: 2, H0620: 2, S0422: 2, L0500: 2, L0769: 2, L0766: 2, L0375: 2, L0514: 2, L0793: 2, S0126: 2, S6024: 1, H0484: 1, H0125: 1, H0393: 1, H0586: 1, H0497: 1, H0331: 1, H0574: 1, L0622: 1, H0013: 1, T0082: 1, S0010: 1, L0563: 1, H0597: 1, L0471: 1, H0012: 1, H0356: 1, H0328: 1, H0428: 1, H0039: 1, T0006: 1, H0424: 1, T0067: 1, H0487: 1, H0059: 1, S0144: 1, S0426: 1, L0770: 1, L5575: 1, L0768: 1, L0794: 1, L0499: 1, L0497: 1, L0806: 1, L0805: 1, L0783: 1, L0789: 1, L0666: 1, L0663: 1, L0664: 1, H0144: 1, S0374: 1, L0438: 1, H0547: 1, H0519: 1, H0593: 1, H0658: 1,		
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HACMU05	1053236	785	1717 - 2631	2960	His-10 to Ala-18, Lys-77 to Glu-86, Gln-137 to Trp-143, Gln-256 to Asp-263, Glu-276 to Arg-285.	S0032: 1, L0740: 1, L0755: 1, L0758: 1, H0444: 1, L0596: 1 and S0192: 1. H0656: 6, H0521: 6, H0543: 4, S0002: 3, L0766: 3, H0664: 2, H0581: 2, H0488: 2, L0771: 2, L0767: 2, L0794: 2, L0789: 2, H0593: 2, H0436: 2, L0748: 2, L0439: 2, H0542: 2, H0423: 2, H0265: 1, H0685: 1, H0657: 1, H0663: 1, H0402: 1, H0125: 1, S0418: 1, S0354: 1, S0358: 1, H0637: 1, S0046: 1, S0278: 1, H0611: 1, H0586: 1, H0486: 1, S0280: 1, L0021: 1, H0457: 1, H0373: 1, H0083: 1, H0622: 1, H0553: 1, H0181: 1, S0036: 1, H0087: 1, H0264: 1, H0413: 1, H0623: 1, H0059: 1, H0429: 1, H0647: 1, S0144: 1, H0529: 1, L0639: 1,	17q25	114290, 138033, 162100, 170500, 170500, 170500, 180860, 264470
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							L0761: 1, L0667: 1, L0644: 1, L0768: 1, L0659: 1, L0809: 1, L0790: 1, L0666: 1, L0663: 1, H0703: 1, S0374: 1, H0689: 1, H0684: 1, S0332: 1, H0555: 1, L0609: 1, L0749: 1, L0779: 1 and H0136: 1.			
HOVDF79	1053369	786	3 - 587	2961	Ala-8 to Gly-15, Gln-44 to Asn-52, Gly-62 to Ser-68.		H0615: 1, H0428: 1, L0638: 1, L0764: 1, L0659: 1, L0438: 1, L0352: 1, H0648: 1, L0439: 1 and L0731: 1.			
HVVB154	1053547	787	2 - 610	2962			H0135: 13, H0052: 9, H0539: 8, H0521: 8, H0013: 7, L0769: 7, L0666: 7, L0750: 7, L0599: 7, S0007: 6, H0619: 6, H0333: 6, H0486: 6, S0010: 6, H0012: 6, L0766: 6, H0144: 6, H0593: 6, L0745: 6, H0656: 5, H0197: 5, H0024: 5, H0428: 5, H0100: 5, L0520: 5, L0776: 5, L0655: 5, L0517: 5, L0663: 5, H0670: 5,	19p13.3	108725, 120700, 133171, 136836, 145981, 147141, 164953, 188070, 600957, 601238, 601846, 602216, 602477	

H0522: 5, S0044: 5, L0744: 5, L0747: 5, L0779: 5, H0423: 5, S0360: 4, L0665: 4, H0547: 4, H0519: 4, S0126: 4, H0555: 4, H0436: 4, S0028: 4, L0439: 4, L0740: 4, L0758: 4, H0445: 4, H0255: 3, H0069: 3, H0618: 3, H0581: 3, H0457: 3, H0150: 3, H0050: 3, H0687: 3, H0622: 3, H0424: 3, H0617: 3, H0087: 3, T0067: 3, L0662: 3, L0649: 3, L0774: 3, L0659: 3, L0530: 3, S0374: 3, L0438: 3, H0672: 3, S0380: 3, L0751: 3, L0759: 3, L0596: 3, L0589: 3, H0506: 3, S0040: 2, S0114: 2, T0049: 2, H0583: 2, H0657: 2, S0116: 2, S0212: 2, H0662: 2, H0402: 2, S0356: 2, S0045: 2, S0046: 2, H0369: 2, S0222: 2, H0586: 2,					
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H0587: 2, H0575: 2, S0346: 2, H0123: 2, L0471: 2, H0620: 2, H0199: 2, H0373: 2, H0356: 2, H0099: 2, H0271: 2, S0250: 2, H0688: 2, T0006: 2, H0181: 2, L0455: 2, S0366: 2, H0634: 2, H0561: 2, H0641: 2, S0142: 2, S0210: 2, H0529: 2, L0637: 2, L0761: 2, L0646: 2, L0803: 2, L0775: 2, L0636: 2, L0526: 2, L0518: 2, L0809: 2, L0789: 2, S0053: 2, H0693: 2, H0520: 2, H0658: 2, H0651: 2, H0710: 2, S0406: 2, H0478: 2, L0611: 2, S0027: 2, L0741: 2, L0754: 2, L0749: 2, L0756: 2, L0777: 2, L0731: 2, S0434: 2, L0597: 2, L0592: 2, L0581: 2, L0593: 2, L0595: 2, L0361: 2, L0601: 2, L0603: 2, S0026: 2, S0194: 2,					
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	H0543: 2, H0265: 1, H0556: 1, H0686: 1, S0218: 1, S0282: 1, H0254: 1, H0663: 1, H0306: 1, H0638: 1, S0418: 1, S0354: 1, S0358: 1, S0376: 1, S0408: 1, H0637: 1, L0476: 1, H0393: 1, H0437: 1, H0550: 1, S6016: 1, H0392: 1, H0455: 1, H0249: 1, H0600: 1, T0040: 1, T0060: 1, H0635: 1, H0427: 1, H0599: 1, H0706: 1, H0036: 1, H0253: 1, T0048: 1, H0318: 1, S0474: 1, S0049: 1, H0309: 1, H0046: 1, H0569: 1, H0081: 1, H0154: 1, S0051: 1, H0083: 1, S6028: 1, H0238: 1, H0188: 1, S0318: 1, H0288: 1, S0022: 1, H0328: 1, H0039: 1, L0483: 1, H0031: 1, H0553: 1, H0644: 1, H0628: 1, L0055: 1, H0674: 1, L0456: 1,	
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				H0708: 1, S0036: 1, H0040: 1, H0551: 1, H0379: 1, H0477: 1, H0264: 1, H0488: 1, H0059: 1, S0038: 1, L0351: 1, H0429: 1, H0494: 1, H0625: 1, S0464: 1, H0132: 1, H0647: 1, H0646: 1, L0598: 1, L0369: 1, L0640: 1, L0763: 1, L0501: 1, L0372: 1, L0773: 1, L0768: 1, L0661: 1, L0558: 1, L0540: 1, L0547: 1, L0783: 1, L0384: 1, L0541: 1, L0647: 1, L0532: 1, L0664: 1, S0052: 1, S0428: 1, H0697: 1, H0689: 1, H0682: 1, H0683: 1, H0648: 1, S0330: 1, H0518: 1, H0696: 1, S0190: 1, H0694: 1, S0404: 1, H0576: 1, S0390: 1, L0748: 1, L0752: 1, L0753: 1, L0485: 1, L0608: 1, H0665: 1, H0422: 1, S0424: 1, L0600: 1 and
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						H0352: 1.			
HOFMU50	1053548	788	356 - 547	2963	Gln-36 to Leu-47, Glu-55 to Asn-64.		H0415: 2, H0583: 1, H0123: 1, H0623: 1, H0518: 1 and L0779: 1.		
HE9MO38	1053585	789	2 - 268	2964	Pro-26 to Ala-33, Gly-68 to Gln-75.		H0254: 1, S0278: 1, L0764: 1, H0144: 1, S0424: 1 and H0506: 1.		
HOPJF55	1053725	790	3 - 698	2965	Glu-1 to Gly-11, Gln-83 to Asp-98, Glu-101 to Gln-110, Gln-112 to Gln-120, Thr-128 to Asn-133, Glu-135 to Gly-142, Asp-145 to Cys-153, His-160 to Cys-166.		L0747: 10, L0771: 8, H0333: 7, H0620: 6, H0545: 5, H0024: 5, H0551: 5, L0659: 5, L0665: 5, H0012: 4, L0769: 4, L0375: 4, S0126: 4, L0740: 4, L0754: 4, L0755: 4, L0759: 4, H0294: 3, S0045: 3, H0550: 3, L0471: 3, L0794: 3, H0689: 3, H0682: 3, L0749: 3, H0624: 2, H0171: 2, H0251: 2, H0081: 2, H0050: 2, H0252: 2, H0428: 2, H0124: 2, H0068: 2, L0637: 2, L0368: 2, L0792: 2, L0565: 2, L0779: 2, L0777: 2, L0757: 2, H0352: 2, H0170: 1, H0685: 1, S0356: 1, S0376: 1.	1p36.1-p35	116600, 118210, 120550, 120570, 120575, 121800, 130500, 133200, 138140, 138971, 171760, 171760, 172411, 185470, 230350, 255800, 600975, 602771

HAOTD13	1053746	791	2 - 808	2966	S0360: 1, S0046: 1, H0645: 1, H0549: 1, H0592: 1, H0586: 1, H0013: 1, L0021: 1, T0082: 1, H0544: 1, H0546: 1, H0041: 1, H0570: 1, H0123: 1, H0594: 1, H0328: 1, H0615: 1, H0553: 1, H0413: 1, H0100: 1, S0002: 1, L0762: 1, L0761: 1, L0772: 1, L0646: 1, L0764: 1, L0662: 1, L0767: 1, L0364: 1, L0806: 1, L0805: 1, L0629: 1, L0809: 1, L0789: 1, H0144: 1, H0684: 1, H0659: 1, S0330: 1, S0190: 1, S0037: 1, S3014: 1, S0028: 1, L0744: 1, L0780: 1, L0758: 1, H0343: 1 and H0008: 1.		
					L0748: 22, L0751: 11, L0754: 11, L0740: 9, L0758: 9, H0659: 7, L0362: 6, H0052: 5, S0003: 5, L0769: 5, H0651: 5, L0747: 4,		

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	H0253: 1, S0010: 1, H0318: 1, H0581: 1, H0009: 1, H0123: 1, L0471: 1, H0014: 1, H0188: 1, H0328: 1, H0428: 1, T0023: 1, H0031: 1, H0553: 1, H0644: 1, H0313: 1, H0181: 1, H0617: 1, L0055: 1, H0673: 1, H0361: 1, H0087: 1, T0067: 1, H0433: 1, H0412: 1, H0494: 1, S0448: 1, S0210: 1, L0763: 1, L0371: 1, L0639: 1, L0637: 1, L0761: 1, L0772: 1, L0372: 1, L0645: 1, L0764: 1, L0771: 1, L0521: 1, L0662: 1, L0387: 1, L0650: 1, L0375: 1, L0806: 1, L0776: 1, L0655: 1, L0657: 1, L0783: 1, L0809: 1, L0529: 1, L0666: 1, L0664: 1, L0665: 1, H0689: 1, H0435: 1, H0670: 1, H0648: 1, H0539: 1, H0187: 1, S0028: 1,					
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							L0743: 1, L0750: 1, L0757: 1, L0759: 1, H0445: 1, S0242: 1, S0196: 1, L0698: 1, UNKWN: 1 and L0600: 1.			
HODCI32	1053772	792	643 - 149	2967		Tyr-1 to Glu-8, Pro-51 to Thr-67, Val-85 to Ser-90, Pro-118 to Gly-128.	L0776: 4, L0756: 4, L0777: 4, L0749: 2, H0052: 1, H0565: 1, H0328: 1, L0770: 1, L0769: 1, L0761: 1, L0805: 1, L0659: 1, L0809: 1, L0787: 1, L0666: 1, L0665: 1, L0439: 1, L0751: 1, L0745: 1, L0747: 1, L0779: 1 and L0758: 1.			
HOCPI34	1053973	793	1 - 2355	2968		Ser-19 to Gly-26, Glu-46 to Gln-52, Pro-61 to Ser-66, Arg-71 to Leu-85, Tyr-99 to Tyr-105, Pro-107 to Gly-115, Leu-137 to Leu-147, Glu-175 to Leu-181, Ala-187 to Ser-196, Ile-200 to Trp-209, Ser-353 to Lys-367, Gly-388 to Ser-397, Thr-415 to Val-423.	L0438: 5, L0749: 4, H0266: 3, H0038: 3, L0803: 3, L0666: 3, L0777: 3, L0763: 2, H0547: 2, L0748: 2, L0759: 2, S0031: 2, L0591: 2, S0358: 1, S0376: 1, S0007: 1, S0045: 1, S0132: 1, S0222: 1, H0013: 1, S0010: 1, H0390: 1, H0052: 1, H0596: 1, H0046: 1, H0564: 1,	2q23-q31	100690, 120180, 120180, 120180, 120180, 120190, 142989, 156232, 178600, 266100, 600258, 600321	



HFKHC64	1054015	794	1928 - 363	2969	<p>Gly-6 to His-16, Arg-20 to Gly-41, Arg-115 to Asn-121, Phe-136 to Glu-144, Lys-152 to Glu-162, Glu-176 to Thr-182, Pro-205 to Gln-212, Lys-229 to Ala-235, Gly-310 to Trp-315, Val-328 to Thr-342.</p>	<p>Glu-459 to Cys-469, Gly-471 to Pro-481.</p>	<p>N0007: 1, H0201: 1, H0616: 1, H0551: 1, T0042: 1, H0561: 1, H0131: 1, H0529: 1, L0761: 1, L0641: 1, L0774: 1, L0776: 1, L0659: 1, L0665: 1, H0520: 1, H0519: 1, H0593: 1, S0126: 1, H0660: 1, H0539: 1, H0579: 1, L0743: 1, L0439: 1, L0745: 1, L0747: 1, L0750: 1, S0260: 1 and L0366: 1.</p>	19q13.2- q13.4	<p>107741, 113900, 122720, 122720, 126340, 126391, 134790, 160900, 164731, 173850, 191044, 207750, 248600, 258501, 600040, 600138</p>
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HOPKO37	1054085	795	2117 - 1056	2970	Arg-22 to Met-33, Ile-38 to Ala-49, Val-64 to Pro-85.	L0603: 2, H0295: 1, S0212: 1, H0638: 1, S0356: 1, S0376: 1, S0360: 1, H0370: 1, H0587: 1, H0333: 1, H0486: 1, H0427: 1, H0156: 1, L0021: 1, H0618: 1, H0253: 1, H0052: 1, H0563: 1, H0023: 1, H0266: 1, S0022: 1, H0039: 1, T0006: 1, H0424: 1, H0135: 1, H0264: 1, H0623: 1, H0509: 1, H0647: 1, L0520: 1, L0375: 1, L0654: 1, L0783: 1, L0809: 1, L0789: 1, L0666: 1, L0663: 1, S0374: 1, H0593: 1, S0126: 1, H0690: 1, S0328: 1, S0152: 1, S0146: 1, H0555: 1, L0779: 1, L0752: 1, L0731: 1, L0759: 1, L0592: 1, S0011: 1, H0665: 1, H0667: 1 and S0042: 1.	5		
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				Pro-105 to Ala-123.	S0420: 2, H0599: 2, H0620: 2, H0617: 2, H0412: 2, H0100: 2, H0646: 2, H0520: 2, H0684: 2, L0588: 2, L0778: 1, H0484: 1, H0661: 1, S0360: 1, H0586: 1, H0427: 1, H0253: 1, H0581: 1, H0546: 1, H0009: 1, N0006: 1, H0172: 1, H0012: 1, H0188: 1, H0181: 1, H0606: 1, H0040: 1, H0059: 1, H0561: 1, S0002: 1, L0503: 1, L0640: 1, L0803: 1, L0652: 1, L0654: 1, L0790: 1, L0664: 1, L0565: 1, H0682: 1, H0658: 1, H0670: 1, H0660: 1, H0539: 1, L0744: 1, L0439: 1, L0754: 1, L0747: 1, L0750: 1, L0777: 1, L0731: 1, S0260: 1, L0593: 1, H0506: 1 and H0352: 1.		
HNBVO53	1054122	796	2 - 2332	2971	His-4 to Tyr-10, Ile-58 to Leu-63, Pro-65 to Val-74.	L0794: 5, H0542: 5, S0358: 3, H0013: 2, H0618: 2, H0617: 2,	

					Leu-122 to Ser-132, Gln-134 to Leu-144, Pro-155 to Ser-166.	L0769: 2, L0764: 2, L0662: 2, L0803: 2, H0670: 2, L0756: 2, L0595: 2, L0361: 2, H0556: 1, S0040: 1, L0785: 1, H0341: 1, H0661: 1, H0662: 1, H0402: 1, S0420: 1, H0370: 1, T0040: 1, T0114: 1, H0253: 1, H0581: 1, H0041: 1, H0687: 1, H0604: 1, H0213: 1, H0644: 1, H0181: 1, H0087: 1, H0412: 1, H0413: 1, H0100: 1, S0382: 1, H0509: 1, S0210: 1, L0763: 1, L0761: 1, L0372: 1, L0641: 1, L0649: 1, L0386: 1, L0809: 1, L0789: 1, L0663: 1, H0693: 1, H0658: 1, H0672: 1, H0539: 1, S0027: 1, L0757: 1, L0758: 1, L0604: 1, H0543: 1, H0506: 1 and H0352: 1.		
HOPKF84	1054155	797	395 - 1168	2972	Ser-11 to Cys-17, Glu-39 to Tyr-49, Glu-98 to Glu-104,	L0766: 5, L0804: 3, L0105: 2, L0803: 2, L0788: 2, H0659: 2,		

					Gly-122 to Ser-128, Tyr-154 to Val-163, Glu-170 to Thr-195, Leu-213 to Gly-218, Lys-229 to Phe-236, Ser-241 to Ser-248.	L0759: 2, H0624: 1, H0657: 1, H0661: 1, H0601: 1, H0266: 1, H0687: 1, H0032: 1, H0413: 1, S0450: 1, H0509: 1, L0763: 1, L0638: 1, L0761: 1, L0662: 1, L0650: 1, L0805: 1, L0659: 1, L0666: 1, L0664: 1, L0665: 1, S0052: 1, H0547: 1, H0684: 1, L0745: 1, L0747: 1, L0750: 1, L0731: 1, L0758: 1, H0595: 1, S0026: 1, H0543: 1, S0424: 1 and S0456: 1.			
HCQDQ11	1054196	798	109 - 174	2973		H0594: 11, H0596: 8, S0282: 5, S0260: 5, S0194: 5, H0543: 5, S0278: 2, H0600: 2, H0592: 2, H0598: 2, S0344: 2, H0595: 2, S0356: 1, H0438: 1, H0574: 1, H0599: 1, S0346: 1, H0318: 1, H0597: 1, S0388: 1, H0316: 1, S0390: 1 and H0542: 1.	17p13.3	113721, 247200, 600059, 601545	
HTFML39	1054230	799	1 - 873	2974	Ala-23 to Gly-49,	H0124: 2, H0618: 1,			

					Ser-106 to Pro-115, Gly-160 to Lys-167, Thr-183 to Gly-189, Glu-196 to Gly-211, Ala-218 to Gly-224, Val-257 to Leu-269.	H0123: 1, H0012: 1, H0083: 1, H0428: 1, H0593: 1, L0740: 1 and S0424: 1.			
HOGCR32	1054235	800	3 - 137	2975	Pro-3 to Lys-13, Thr-39 to Ile-45.	H0435: 2			
HFCDL60	1054288	801	1158 - 241	2976	Glu-2 to Thr-7, Arg-64 to Lys-72, Glu-77 to Leu-83, Arg-93 to Ser-102, Ile-118 to Gln-123, Ser-152 to Gly-158, Gln-276 to Ser-282.	AR089: 7, AR104: 6, AR096: 6, AR053: 4, AR039: 4, AR060: 3, AR033: 1, AR061: 1, AR055: 0 L0777: 9, H0556: 8, H0620: 7, L0766: 7, H0521: 7, L0747: 6, S0360: 5, H0250: 5, L0751: 5, L0794: 4, L0754: 4, L0591: 4, S0354: 3, S0358: 3, S0278: 3, H0553: 3, S0144: 3, L0769: 3, L0773: 3, H0547: 3, S0404: 3, S3014: 3, L0743: 3, L0744: 3, L0439: 3, L0752: 3, L0731: 3, H0445: 3, S0218: 2, H0580: 2, S0132: 2, H0393: 2, H0550: 2, S0222: 2,	15q23-q25	118485, 151670, 231680, 272800, 272800, 272800, 276700, 600374, 601780	

	H0486: 2, H0635: 2, H0575: 2, H0590: 2, H0251: 2, H0309: 2, H0457: 2, H0150: 2, H0050: 2, H0083: 2, H0266: 2, H0288: 2, H0135: 2, H0264: 2, T0041: 2, H0561: 2, L0761: 2, L0771: 2, L0768: 2, L0649: 2, L0804: 2, L0651: 2, L0518: 2, L0789: 2, L0666: 2, H0144: 2, L0565: 2, L0438: 2, S0330: 2, S0037: 2, S0027: 2, L0740: 2, L0745: 2, L0758: 2, S0434: 2, L0581: 2, L0593: 2, L0595: 2, H0542: 2, H0543: 2, T0002: 1, S0040: 1, H0717: 1, H0657: 1, H0656: 1, H0341: 1, H0483: 1, H0255: 1, H0305: 1, H0589: 1, S0420: 1, H0676: 1, H0208: 1, S0045: 1, S0046: 1, H0370: 1, H0392: 1, H0592: 1, H0587: 1, T0040: 1,					
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793



							S0406: 1, S0032: 1, L0749: 1, L0756: 1, L0779: 1, L0759: 1, S0260: 1, H0665: 1, H0136: 1, H0423: 1, S0424: 1 and H0506: 1.			
HODEC13	1054400	802	1599 - 880	2977			H0208: 2, H0615: 2, S0001: 1, H0351: 1, H0545: 1, H0081: 1, H0424: 1 and H0334: 1.			
HUSYA18	1054451	803	689 - 138	2978			L0749: 15, L0748: 9, L0758: 9, L0766: 8, L0770: 7, H0266: 6, L0775: 6, L0655: 6, L0731: 6, L0362: 6, S0444: 5, L0764: 5, L0809: 5, S0358: 4, H0637: 4, L0777: 4, L0752: 4, H0305: 3, S0440: 3, L0646: 3, L0773: 3, S0406: 3, L0439: 3, L0740: 3, L0754: 3, L0755: 3, L0759: 3, H0341: 2, S0420: 2, S0356: 2, S0360: 2, S028: 2, H0551: 2, S0438: 2, L0761: 2, L0373: 2, L0800: 2, L0768: 2, L0774: 2, L0666: 2,	157900, 600185, 600185, 600631	13q12.3- q13.1	

				L0665: 2, S0378: 2, S0380: 2, L0750: 2, L0592: 2, H0423: 2, H0624: 1, H0685: 1, H0664: 1, S0418: 1, S0476: 1, H0393: 1, H0351: 1, S0222: 1, H0574: 1, L0623: 1, H0486: 1, H0156: 1, T0082: 1, H0036: 1, S0010: 1, H0318: 1, H0309: 1, H0569: 1, S0003: 1, L0055: 1, H0673: 1, S0036: 1, H0412: 1, H0413: 1, S0038: 1, L0351: 1, T0041: 1, H0494: 1, H0714: 1, L0369: 1, L0520: 1, L0763: 1, L0769: 1, L0772: 1, L0372: 1, L0645: 1, L0521: 1, L0767: 1, L0364: 1, L0794: 1, L0649: 1, L0375: 1, L0651: 1, L0378: 1, L0805: 1, L0653: 1, L4669: 1, L0659: 1, L0792: 1, L5286: 1, L0663: 1, L0664: 1, S0374: 1, H0689: 1,	
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HOCON42	1054527	804	2000 - 1755	2979	Glu-16 to Gly-33, Lys-63 to Lys-71, Asp-77 to Pro-82.	H0682: 1, H0684: 1, H0659: 1, H0670: 1, H0660: 1, H0648: 1, H0710: 1, H0521: 1, S0013: 1, H0696: 1, H0436: 1, S0028: 1, L0747: 1, L0786: 1, S0436: 1, L0591: 1, L0599: 1, S0026: 1, H0543: 1, H0422: 1 and S0424: 1.		
						S0250: 5, L0764: 4, H0457: 3, L0789: 3, H0543: 3, H0650: 2, L0717: 2, H0594: 2, H0622: 2, L0769: 2, L0800: 2, L0794: 2, L0657: 2, L0809: 2, H0670: 2, H0521: 2, H0445: 2, H0136: 2, H0542: 2, H0656: 1, H0484: 1, H0255: 1, S0354: 1, S0358: 1, S0360: 1, H0550: 1, H0370: 1, H0597: 1, H0081: 1, H0012: 1, H0620: 1, H0266: 1, H0553: 1, S0364: 1, H0063: 1, H0488: 1, H0412: 1, H0059: 1,		

						H0494: 1, H0561: 1, H0509: 1, S0144: 1, S0344: 1, S0210: 1, S0002: 1, L0770: 1, L0667: 1, L0772: 1, L0771: 1, L0662: 1, L0803: 1, L0774: 1, L0806: 1, L0655: 1, L0659: 1, L0636: 1, L0783: 1, L0663: 1, L0664: 1, L0665: 1, H0519: 1, H0689: 1, H0684: 1, H0658: 1, H0660: 1, L0602: 1, H0436: 1, L0779: 1, S0031: 1, L0595: 1 and S0424: 1.		
HKMNH37	1054550	805	22 - 1206	2980	Ser-24 to Thr-31, Pro-164 to Asn-173, Val-185 to Arg-192, Gln-199 to Gly-204, Lys-250 to Gly-258, Gln-265 to Ser-277, Gln-322 to Gly-327, Ala-334 to Ser-343, Pro-349 to Cys-356.	L0777: 5, L0748: 4, S0007: 2, L0764: 2, L0809: 2, L0750: 2, L0759: 2, H0669: 1, H0730: 1, H0431: 1, L0022: 1, H0581: 1, H0057: 1, H0271: 1, H0428: 1, L0768: 1, L0794: 1, L0766: 1, L0803: 1, L0805: 1, L0655: 1, L0657: 1, L0518: 1, L0783: 1, L0666: 1, L0665: 1,		

							L0743: 1, L0740: 1, L0751: 1, L0747: 1, L0756: 1, H0445: 1, L0599: 1, H0423: 1, L0698: 1 and H0352: 1.		
HPDWP21	1054662	806	63 - 797	2981	Lys-26 to Glu-41, Lys-149 to Ala-156, Arg-214 to Lys-225, Ile-229 to Lys-235, Glu-240 to His-245.		L0659: 10, L0439: 5, L0378: 4, L0748: 4, L0777: 4, H0657: 3, L0662: 3, L0655: 3, L0665: 3, S0428: 3, H0658: 3, S0434: 3, H0618: 2, S0474: 2, S0049: 2, H0309: 2, H0024: 2, H0412: 2, S0002: 2, S0426: 2, L0646: 2, L0771: 2, L0774: 2, L0657: 2, L0664: 2, H0696: 2, S0027: 2, L0588: 2, L0605: 2, L0601: 2, H0556: 1, T0002: 1, H0716: 1, S0116: 1, H0661: 1, H0662: 1, S0418: 1, S0442: 1, S0444: 1, H0208: 1, S0132: 1, S0476: 1, H0619: 1, H0351: 1, S6022: 1, H0549: 1, S0220: 1, H0455: 1, H0427: 1, S0280: 1,		

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H0583: 1, H0650: 1, S0212: 1, H0483: 1, H0402: 1, H0125: 1, S0418: 1, S0420: 1, S0356: 1, S0360: 1, S0046: 1, L0717: 1, H0261: 1, H0370: 1, H0391: 1, H0438: 1, H0486: 1, T0039: 1, H0250: 1, H0156: 1, L0021: 1, H0575: 1, T0082: 1, H0253: 1, S0474: 1, T0071: 1, H0581: 1, S0049: 1, H0052: 1, H0235: 1, H0150: 1, L0471: 1, H0620: 1, S0362: 1, S0388: 1, T0010: 1, H0594: 1, H0266: 1, H0188: 1, H0687: 1, H0292: 1, H0615: 1, H0688: 1, H0048: 1, H0424: 1, H0031: 1, H0644: 1, L0143: 1, H0181: 1, H0617: 1, L0455: 1, H0708: 1, H0163: 1, H0591: 1, H0551: 1, H0488: 1, H0646: 1, S0344: 1, L0762: 1, L0640: 1,
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HWMCK60	1054751	808	3 - 485	2983	Ser-46 to Ala-56,	H0694: 23, L0777: 11,		
						L0638: 1, L0761: 1, L0772: 1, L0374: 1, L0764: 1, L0771: 1, L0648: 1, L0521: 1, L0662: 1, L0768: 1, L0794: 1, L0649: 1, L0386: 1, L0381: 1, L0775: 1, L0375: 1, L0378: 1, L0806: 1, L0653: 1, L0776: 1, L0655: 1, L0606: 1, L0518: 1, L0809: 1, L0789: 1, L0793: 1, L0666: 1, L0664: 1, S0052: 1, S0374: 1, L0438: 1, H0547: 1, H0593: 1, H0690: 1, H0682: 1, H0670: 1, H0660: 1, H0666: 1, S0330: 1, S0152: 1, H0696: 1, H0436: 1, L0745: 1, L0750: 1, L0779: 1, S0260: 1, S0434: 1, L0605: 1, L0595: 1, L0361: 1, H0653: 1, S0192: 1, S0194: 1, S0276: 1, H0422: 1, H0008: 1 and H0352: 1.		

Asp-85 to Ala-116, Gln-132 to Lys-140, Phe-143 to Leu-152.	L0747: 10, L0005: 9, L0755: 8, L0754: 7, L0731: 6, L0776: 5, L0758: 5, L0759: 5, H0141: 4, H0585: 4, S0360: 4, L0770: 4, L0771: 4, L0775: 4, S0374: 4, L0756: 4, L0763: 3, L0764: 3, L0766: 3, L0806: 3, L0751: 3, L0749: 3, H0668: 3, H0543: 3, H0295: 2, H0638: 2, S0222: 2, S0210: 2, L0662: 2, L0774: 2, L0783: 2, L0792: 2, H0144: 2, S0152: 2, S0406: 2, L0748: 2, L0750: 2, L0757: 2, H0542: 2, H0624: 1, H0171: 1, T0002: 1, H0294: 1, S0218: 1, S0430: 1, H0656: 1, H0341: 1, H0661: 1, H0228: 1, S0348: 1, S0376: 1, S0444: 1, S0408: 1, S0045: 1, S0278: 1, H0431: 1, H0586: 1, H0587: 1, H0497: 1, H0486: 1,
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HWLOU33	1054790	809	3 - 401	2984		H0599: 1, H0196: 1, T0110: 1, H0327: 1, H0009: 1, L0157: 1, H0083: 1, H0375: 1, H0594: 1, H0188: 1, H0687: 1, S0003: 1, H0252: 1, H0428: 1, H0031: 1, H0553: 1, H0400: 1, H0591: 1, T0067: 1, H0264: 1, H0059: 1, S0386: 1, T0041: 1, H0494: 1, H0625: 1, S0438: 1, H0641: 1, H0646: 1, S0144: 1, S0344: 1, L0520: 1, L0769: 1, L0638: 1, L0761: 1, L0373: 1, L0768: 1, L0383: 1, L0666: 1, L0664: 1, H0547: 1, H0670: 1, S0328: 1, S0146: 1, H0436: 1, S3012: 1, L0744: 1, L0740: 1, L0752: 1, L0753: 1, H0445: 1, H0653: 1 and H0667: 1. AR096: 3, AR052: 2, AR089: 2, AR060: 2, AR061: 1, AR033: 1, AR053: 1, AR055: 1,		
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						AR039: 0, AR104: 0 S0444: 5, S0360: 4, S0408: 3, H0625: 3, H0436: 3, S0358: 2, H0641: 2, L0803: 2, S0374: 2, H0656: 1, H0662: 1, S0420: 1, S0442: 1, S0354: 1, S0376: 1, H0392: 1, H0427: 1, H0457: 1, H0538: 1, H0547: 1, H0660: 1, H0648: 1, H0672: 1, S0378: 1, S0192: 1, H0423: 1 and H0422: 1.		
HKZBM58	1054812	810	33 - 584	2985	Leu-25 to Arg-30, Glu-41 to Thr-56, Met-74 to Asn-81, Tyr-108 to Thr-116, Asp-126 to Gly-131, Met-141 to Asp- 149, Pro-170 to Tyr-184.	L0748: 19, S0372: 12, L0747: 12, L0750: 9, S0408: 7, L0752: 7, L0731: 7, L0758: 7, H0031: 6, L0439: 6, L0740: 6, L0769: 5, L0757: 5, L0471: 4, L0065: 4, H0672: 4, H0543: 4, H0341: 3, H0318: 3, H0616: 3, H0413: 3, L0771: 3, L0803: 3, L0790: 3, H0547: 3, H0689: 3, H0658: 3, S0406: 3, H0436: 3, L0779: 3,		

		H0686: 2, S0212: 2, H0662: 2, S0356: 2, S0358: 2, S0360: 2, H0675: 2, H0580: 2, H0370: 2, L0623: 2, H0486: 2, H0575: 2, S0010: 2, H0428: 2, H0628: 2, H0674: 2, H0038: 2, H0056: 2, S0440: 2, L0520: 2, L0764: 2, L0767: 2, L0794: 2, L0766: 2, L0775: 2, L0783: 2, L0809: 2, L0791: 2, L0665: 2, H0659: 2, H0651: 2, S0330: 2, H0539: 2, H0134: 2, L0754: 2, S0260: 2, L0362: 2, L0361: 2, H0668: 2, L0440: 1, H0265: 1, H0295: 1, S0114: 1, T0049: 1, H0484: 1, H0661: 1, H0638: 1, S0354: 1, S0007: 1, S0045: 1, S0132: 1, H0619: 1, H0411: 1, S0222: 1, H0392: 1, H0592: 1, H0333: 1, H0574: 1, T0039: 1, T0114: 1,		
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	H0013: 1, L0021: 1, H0599: 1, T0082: 1, S0474: 1, H0581: 1, H0052: 1, H0251: 1, T0110: 1, H0597: 1, H0327: 1, H0545: 1, H0178: 1, H0373: 1, S0320: 1, L0171: 1, H0266: 1, H0084: 1, H0271: 1, H0687: 1, S0003: 1, S0214: 1, H0644: 1, H0181: 1, L0055: 1, L0455: 1, H0163: 1, H0040: 1, H0551: 1, H0412: 1, S0038: 1, H0100: 1, T0041: 1, H0494: 1, H0560: 1, H0561: 1, H0509: 1, S0150: 1, L0598: 1, H0529: 1, L0763: 1, L0637: 1, L0646: 1, L0804: 1, L0774: 1, L0776: 1, L0659: 1, L0526: 1, L0518: 1, L0519: 1, L0789: 1, L0666: 1, S0374: 1, H0519: 1, H0684: 1, H0660: 1, H0666: 1, H0648: 1, H0522: 1, S0146: 1,					
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HTEOV06	1054813	811	311 - 799	2986		Glu-12 to Thr-27, Met-45 to Asn-52, Tyr-79 to Thr-87, Asp-97 to Tyr-103, Met-120 to Asp- 128, Pro-149 to Tyr-163.	L0747: 2, H0556: 1, S0134: 1, H0341: 1, S0444: 1, H0013: 1, H0575: 1, H0050: 1, H0687: 1, H0628: 1, H0090: 1, H0616: 1, H0551: 1, S0440: 1, H0710: 1, L0748: 1, L0740: 1 and S0434: 1.		
HAMGH34	1055012	812	1446 - 661	2987		Thr-8 to Ala-15, Lys-29 to Ser-39, Lys-44 to Asn-52, Gly-61 to Pro-68.	H0560: 1, S0426: 1, L0776: 1, L0545: 1, L0588: 1, L0591: 1 and H0542: 1.		
HTEHP29	1055174	813	889 - 305	2988		Gly-1 to His-8, Pro-13 to Asn-30.	L0483: 6, L0749: 5, L0659: 4, L0766: 3, L0591: 3, H0038: 2, L0769: 2, L0665: 2, L0438: 2, H0539: 2, L0758: 2, L0759: 2, L0588: 2, H0650: 1, H0664: 1, S0360: 1, S0003: 1, H0615: 1, H0553: 1, H0644: 1, H0169: 1, S0438: 1,		

HNOJJ32	1055248	814	532 - 1914	2989	Gln-2 to Asp-7, Lys-34 to Arg-53, Gly-61 to Glu-70.	S0422: 1, L0770: 1, L0662: 1, L0804: 1, L0776: 1, L0666: 1, S0374: 1, S0310: 1, H0520: 1, S0126: 1, L0748: 1, L0439: 1, L0747: 1 and L0757: 1.		
						H0046: 13, L0439: 6, S0360: 3, H0024: 3, L0769: 3, L0805: 3, L0748: 3, L0749: 3, H0624: 2, H0100: 2, H0520: 2, S0436: 2, L0592: 2, H0685: 1, H0717: 1, H0661: 1, H0664: 1, H0449: 1, S0420: 1, S0376: 1, S0007: 1, S0476: 1, S0300: 1, L0717: 1, H0013: 1, H0156: 1, L0021: 1, H0575: 1, S0010: 1, S0474: 1, L0738: 1, H0178: 1, H0018: 1, S6028: 1, H0188: 1, H0687: 1, H0252: 1, H0428: 1, H0553: 1, S0036: 1, H0038: 1, H0264: 1, S0038: 1, H0561: 1, S0450: 1 S0422: 1.		



HFPHF52	1055304	815	2 - 1333	2990	Ala-1 to Phe-8, Glu-16 to Gly-52, Ser-64 to Glu-80, Leu-94 to Lys-99, Ser-123 to Glu-136, His-157 to Ser-164, Lys-179 to Pro-190, Arg-220 to Glu-226, Phe-244 to Arg-252, Lys-277 to Thr-288, Glu-305 to Gly-310, Glu-328 to Glu-334, Pro-390 to Ala-401, Pro-411 to Gln-417.	S0002: 1, L5566: 1, L0803: 1, L0651: 1, L0776: 1, L0789: 1, S0330: 1, S0332: 1, H0704: 1, S0406: 1, L0740: 1, L0780: 1, L0758: 1, L0759: 1, H0595: 1, S0434: 1, L0595: 1, S0026: 1, H0543: 1, H0423: 1 and H0008: 1.	19q13.4	134790, 191044, 600040, 600138
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						L0002: 1, L0717: 1, H0369: 1, H0455: 1, H0438: 1, H0642: 1, H0331: 1, H0244: 1, H0156: 1, S0010: 1, H0052: 1, L0118: 1, H0051: 1, S0048: 1, S0051: 1, T0010: 1, S6028: 1, L0142: 1, H0674: 1, T0027: 1, L0435: 1, L0369: 1, L0662: 1, L0658: 1, L0659: 1, L0789: 1, L0790: 1, L0791: 1, L0792: 1, L0666: 1, T0068: 1, H0519: 1, S0122: 1, H0672: 1, H0539: 1, S0260: 1 and L0592: 1.		
HBNMF62	1055381	816	266 - 679	2991	Pro-13 to Gly-25, Arg-47 to Gly-54, Pro-74 to Lys-81, His-87 to Trp-93, Glu-107 to Arg-137.	AR089: 2, AR052: 2, AR055: 2, AR039: 1, AR060: 1, AR096: 1, AR033: 1, AR053: 1, AR061: 1, AR104: 0 L0754: 7, L0748: 4, S0007: 3, L0771: 3, L0749: 3, L0750: 3, L0600: 3, L0717: 2, H0618: 2, H0046: 2, H0561: 2, S0422: 2,		

HTPHO72	1055426	817	2 - 1048	2992	Gly-8 to Arg-14, Pro-24 to Arg-29, Leu-64 to Arg-73, His-91 to Arg-97, Tyr-141 to Thr-148, Glu-153 to Met-158, Asp-173 to Arg-180, Lys-185 to Pro-199, Glu-228 to Asp-235,	L0763: 2, L0637: 2, L0794: 2, L0659: 2, H0660: 2, L0439: 2, L0755: 2, T0002: 1, H0583: 1, H0671: 1, S0354: 1, S6016: 1, H0586: 1, L0021: 1, H0052: 1, S0051: 1, T0010: 1, H0083: 1, H0553: 1, H0135: 1, H0063: 1, H0633: 1, L0639: 1, L0646: 1, L0649: 1, L0375: 1, L0655: 1, L0545: 1, L0647: 1, L0664: 1, L0665: 1, H0670: 1, H0672: 1, S0378: 1, H0696: 1, L0751: 1, L0752: 1, L0758: 1, L0759: 1, L0596: 1, L0608: 1 and H0423: 1.	15q22.33- q24.1	151670, 231680, 276700, 600374, 601780
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Leu-244 to Glu-258, Lys-264 to Pro-281, Asn-310 to Ser-316, Glu-331 to Leu-349.	L0717: 3, H0550: 3, H0251: 3, H0622: 3, H0553: 3, L0598: 3, L0646: 3, L0794: 3, L0517: 3, H0144: 3, L0438: 3, L0757: 3, L0785: 2, S0212: 2, S0358: 2, S0360: 2, H0013: 2, H0052: 2, H0150: 2, S0003: 2, H0644: 2, H0059: 2, L0520: 2, L0766: 2, L0804: 2, L0806: 2, L0659: 2, H0520: 2, H0593: 2, H0658: 2, S0330: 2, H0521: 2, L0747: 2, L0750: 2, L0756: 2, L0608: 2, H0422: 2, H0170: 1, H0171: 1, H0149: 1, H0713: 1, H0125: 1, S0418: 1, S0376: 1, S0408: 1, H0580: 1, S0045: 1, H0549: 1, S0222: 1, H0612: 1, H0600: 1, H0586: 1, H0574: 1, H0632: 1, L0021: 1, H0575: 1, H0004: 1, L0109: 1, L0738: 1, H0530: 1,				
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HOPKL18	1055439	818	2 - 1438	2993	Glu-35 to Pro-41, Ala-55 to Arg-67,	L0041: 1, N0006: 1, H0014: 1, L0163: 1, S0051: 1, H0266: 1, S0214: 1, H0615: 1, H0428: 1, T0006: 1, H0674: 1, H0068: 1, S0036: 1, H0616: 1, H0551: 1, H0100: 1, H0494: 1, H0560: 1, S0472: 1, H0646: 1, L0770: 1, L0639: 1, L0761: 1, L0772: 1, L0773: 1, L0653: 1, L0629: 1, L0657: 1, L0529: 1, L0665: 1, S0374: 1, H0519: 1, H0682: 1, H0659: 1, H0670: 1, H0666: 1, H0672: 1, H0539: 1, S0380: 1, S0404: 1, S0406: 1, H0436: 1, H0478: 1, H0627: 1, S0028: 1, L0777: 1, L0780: 1, L0755: 1, L0731: 1, S0196: 1, H0542: 1, H0423: 1, S0424: 1, L0600: 1 and H0352: 1.	22q11.23	123620, 600850

Ala-82 to Lys-87, Gly-94 to Asp-100, Lys-175 to Asp-181, Asp-185 to Trp-190, Gly-193 to Asp-199, Leu-247 to Trp-252, Pro-278 to Asp-283, Arg-395 to Phe-402, Pro-404 to Asp-410, Pro-412 to Trp-420, Gly-443 to Asp-450.	L0751: 12, H0622: 11, L0731: 10, L0659: 8, L0777: 7, L0759: 7, S0360: 6, H0544: 5, L0764: 5, L0748: 5, H0546: 4, L0750: 4, L0780: 4, L0603: 4, H0620: 3, H0644: 3, H0606: 3, H0059: 3, L0771: 3, L0766: 3, L0806: 3, L0665: 3, H0684: 3, H0618: 2, H0086: 2, H0181: 2, L0644: 2, L0375: 2, L0666: 2, L0664: 2, L0744: 2, L0747: 2, L0779: 2, L0752: 2, L0757: 2, L0758: 2, L0605: 2, H0624: 1, H0171: 1, H0661: 1, H0662: 1, S0046: 1, H0549: 1, H0251: 1, H0012: 1, T0003: 1, H0039: 1, H0553: 1, H0316: 1, H0040: 1, H0477: 1, S0352: 1, L0763: 1, L0769: 1, L0796: 1, L0761: 1, L0772: 1, L0773: 1, L0648: 1, L0807: 1,				
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HBAAE59	1055446	819	807 - 145	2994				L0748: 5, L0747: 5, L0766: 3, L0439: 3, L0749: 3, L0752: 3, L0717: 2, L0763: 2, L0772: 2, L0776: 2, L0753: 2, L0731: 2, L0758: 2, L0605: 2, H0580: 1, S0222: 1, L0022: 1, L0157: 1, H0014: 1, H0622: 1, H0617: 1, H0040: 1, H0616: 1, L0435: 1, T0041: 1, S0426: 1, L0598: 1, L0369: 1, L0373: 1, L0764: 1, L0773: 1, L0662: 1, L0768: 1, L0387: 1, L0809: 1, L0529: 1, L0438: 1, H0659: 1, S0404: 1, H0555: 1, S0028: 1, L0742: 1, L0779: 1, L0777: 1, L0755: 1, L0588: 1, L0599: 1, L0604: 1, S0276: 1 and H0422: 1.	3p21.3	116806, 120120, 120120, 120120, 120436, 120436, 120436, 138320, 168468, 182280, 600163	
HTXKD84	1055467	820	1845 -	2995	Lys-18 to Glu-24,			L0439: 13, H0424: 8,			

		1177		<p>Leu-45 to Ile-54, Ala-105 to Thr-114, Pro-123 to Leu-130, Leu-167 to Lys-175, Pro-190 to Pro-195, Val-211 to Ser-218.</p> <p>H0547: 8, L0751: 7, L0777: 6, H0556: 4, H0617: 4, L0435: 4, L0776: 4, L0750: 4, H0253: 3, H0135: 3, H0038: 3, L0774: 3, L0666: 3, S0206: 3, L0605: 3, H0543: 3, H0423: 3, H0624: 2, S0418: 2, L0005: 2, S0007: 2, H0208: 2, S0132: 2, H0013: 2, T0010: 2, H0290: 2, H0213: 2, H0494: 2, L0766: 2, L0659: 2, L0663: 2, L0665: 2, L0438: 2, H0520: 2, H0682: 2, L0743: 2, L0748: 2, L0779: 2, L0758: 2, L0592: 2, H0265: 1, S0040: 1, H0295: 1, S0218: 1, H0657: 1, H0656: 1, S0001: 1, H0402: 1, H0459: 1, S0420: 1, S0046: 1, H0351: 1, H0602: 1, H0586: 1, L0622: 1, H0101: 1, S0280: 1, H0599: 1, H0575: 1, T0082: 1,</p>		
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HTXRR82	1055480	821	408 - 1364	2996	Val-7 to Glu-20, Pro-99 to Lys-105, Glu-113 to Val-119, Ser-136 to Trp-142, Ala-159 to His-164.		H0556: 2, H0135: 2, S0040: 1, H0657: 1, H0586: 1, H0013: 1, H0428: 1, L0761: 1, L0773: 1, L0768: 1, L0774: 1, L0775: 1, H0521: 1, L0748: 1, L0749: 1, L0759: 1 and H0543: 1.		
HAIBU62	1055582	822	1 - 1518	2997	Arg-44 to Val-54.		L0439: 9, S0136: 7, L0777: 3, L0779: 2, H0624: 1, H0170: 1, H0686: 1, H0656: 1, S0408: 1, S0132: 1, H0374: 1, H0266: 1, H0551: 1, L0521: 1, L0662: 1, L0794: 1, L0766: 1, L0381: 1, L0803: 1, L0659: 1, L0809: 1, L0663: 1, L0438: 1, H0659: 1, H0539: 1, L0752: 1, L0592: 1 and L0595: 1.		

HDTAY29	1055632	823	1276 - 686	2998		L0731: 5, H0038: 3, L0766: 2, H0683: 2, H0670: 2, H0660: 2, L0747: 2, L0749: 2, L0779: 2, L0758: 2, H0583: 1, S0420: 1, S0360: 1, H0486: 1, H0156: 1, H0599: 1, H0581: 1, H0597: 1, H0247: 1, H0494: 1, H0647: 1, S0210: 1, L0794: 1, L0804: 1, H0436: 1, S0027: 1, L0596: 1, L0485: 1 and H0542: 1.		
HCOQD79	1055767	824	42 - 689	2999	Trp-8 to Gly-16, Ala-18 to Ala-26, His-28 to His-41, Pro-79 to Glu-85.	L0769: 3, H0484: 1, H0546: 1, H0178: 1, H0553: 1, S0366: 1, L0770: 1, L0761: 1, L0772: 1, L0372: 1, L0374: 1, L0645: 1, L0771: 1, L0766: 1, L0653: 1, L0666: 1, L0664: 1, H0670: 1, S0406: 1, L0777: 1, L0601: 1 and S0446: 1.	16p13.3	141750, 141800, 141800, 141800, 141800, 141850, 141850, 141850, 141850, 141850, 141850, 156850, 186580, 191092, 600140, 600273,

HAMHN12	1055899	825	2 - 1129	3000	Ala-20 to Arg-28, Gly-37 to Thr-47, Pro-50 to Asn-56, Pro-77 to Ala-82, Thr-114 to Ala-119, Pro-133 to Thr-141, Gly-150 to Cys-161, Pro-165 to Asn-177, Thr-179 to Gly-188, Glu-198 to Cys-212, Ile-216 to Arg-222, Val-254 to Arg-265, Ser-271 to Leu-276, Lys-281 to Asn-286, Pro-341 to Lys-346, Ala-349 to Met-355.	AR096: 626, AR039: 392, AR089: 360, AR053: 315, AR060: 315, AR033: 157, AR104: 153, AR061: 115, AR055: 31 L0518: 7, L0777: 6, L0809: 5, L0744: 4, L0649: 2, L0659: 2, H0658: 2, L0748: 2, L0747: 2, L0750: 2, H0411: 1, H0013: 1, L0021: 1, H0123: 1, H0050: 1, H0163: 1, H0560: 1, L0763: 1, L0770: 1, L0769: 1, L0761: 1, L0662: 1, L0375: 1, L0776: 1, L0439: 1, L0749: 1, L0779: 1 and L0599: 1.	601313, 601785
HODIY67	1056000	826	2 - 1957	3001	Ala-27 to Lys-35, Arg-63 to Ile-70, Tyr-100 to Ala-105, Ser-159 to Thr-168.	L0766: 6, L0776: 6, L0777: 5, L0803: 4, L0731: 3, L0759: 3, S0222: 2, H0013: 2, L0157: 2, L0805: 2, L0666: 2, H0521: 2, L0740: 2, L0361: 2, H0170: 1, H0171: 1,	15q

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HNTRS57	1056097	827	2 - 1357	3002	Asn-6 to Val-11.	AR096: 2, AR060: 1, AR089: 1, AR039: 0, AR033: 0, AR104: 0, AR055: 0, AR061: 0 L0747: 16, L0758: 8, L0751: 7, L0774: 6, H0617: 5, L0803: 5, L0809: 5, L0794: 4,				

823

HUKFL74	1056102	828	1 - 177	3003	Arg-13 to Glu-21, Ser-36 to Gly-57.	H0375: 1, H0615: 1, H0644: 1, H0606: 1, H0038: 1, H0412: 1, H0494: 1, S0422: 1, S0426: 1, L0763: 1, L0770: 1, L0639: 1, L0662: 1, L0768: 1, L0649: 1, L0804: 1, L0805: 1, L0776: 1, L0783: 1, L0793: 1, L0664: 1, H0144: 1, S0374: 1, H0593: 1, S0126: 1, H0689: 1, H0539: 1, H0518: 1, S0013: 1, S0404: 1, H0576: 1, S0027: 1, L0786: 1, L0780: 1, L0731: 1, H0595: 1, L0601: 1, H0668: 1, H0653: 1, H0665: 1 and S0194: 1.	L0754: 8, L0741: 5, L0748: 5, L0756: 5, H0550: 4, L0751: 4, L0758: 4, H0265: 3, H0556: 3, L0806: 3, S0418: 2, T0010: 2, S0002: 2, L0777: 2, L0755: 2, H0445: 2, L0603: 2, H0170: 1,	I9p13.1	143890, 151440, 600173, 600276, 600310, 600310, 601604, 601843
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HTEBF05	1056104	829	3 - 344	3004	Arg-7 to Thr-15, Leu-23 to Asp-30, Glu-37 to Val-48, Thr-54 to Pro-64,	L0615: 1, H0159: 1, S0040: 1, H0483: 1, H0254: 1, S0410: 1, H0734: 1, H0549: 1, H0574: 1, H0485: 1, H0013: 1, H0618: 1, H0052: 1, H0597: 1, H0150: 1, H0408: 1, H0416: 1, H0188: 1, H0252: 1, H0030: 1, H0644: 1, S0366: 1, H0634: 1, T0067: 1, H0059: 1, T0042: 1, H0560: 1, H0647: 1, L0763: 1, L0371: 1, L0637: 1, L0667: 1, L0800: 1, L0764: 1, L0771: 1, L0767: 1, L0768: 1, L0803: 1, L0776: 1, L0659: 1, L0789: 1, L0532: 1, L0665: 1, H0144: 1, H0698: 1, S0126: 1, S0392: 1, L0740: 1, L0747: 1, L0779: 1, L0757: 1 and S0436: 1.	AR061: 3, AR039: 3, AR089: 3, AR096: 2, AR053: 2, AR060: 2, AR055: 1, AR104: 1,	3p25	154705, 193300, 193300, 227646,
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					Thr-103 to Thr-108.	AR033: 1 L0665: 4, H0659: 2, H0553: 1, H0038: 1, L0659: 1, L0777: 1, L0758: 1 and L0601: 1.		253260, 278720, 601154, 601253, 602011
HOPKD19	1056275	830	158 - 1084	3005	Ala-95 to Ser-101, Pro-103 to Asp-108, Glu-177 to Lys-183, Lys-226 to Lys-234, Leu-252 to Gly-257, Gln-293 to Ser-301.	H0556: 29, L0748: 28, L0745: 18, H0620: 16, H0040: 15, L0595: 14, H0547: 13, S0358: 12, L0777: 12, H0559: 11, S0046: 9, S0440: 9, L0740: 9, H0265: 8, H0494: 8, L0751: 8, H0341: 7, S0408: 7, L0646: 7, S0126: 7, L0746: 7, L0747: 7, H0543: 7, H0657: 6, H0318: 6, H0052: 6, H0135: 6, L0775: 6, L0655: 6, L0666: 6, H0519: 6, S0406: 6, S0045: 5, H0486: 5, H0581: 5, H0024: 5, L0375: 5, L0659: 5, H0520: 5, S0206: 5, L0750: 5, L0752: 5, T0002: 4, H0717: 4, H0484: 4, S0376: 4, H0497: 4, H0257: 4, H0545: 4, H0644: 4,	12p13	103950, 120580, 131440, 139130, 142680, 176260, 190450, 200990, 216950, 600228, 600414, 600618, 602096

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HLICR58	1056290	831	3 - 932	3006	Ser-48 to Asp-53, Asn-63 to Arg-69, Lys-77 to Lys-82.	AR061: 7, AR089: 7, AR053: 5, AR060: 5, AR033: 4, AR096: 4, AR055: 4, AR039: 3, AR104: 3, AR052: 0 L0750: 33, L0588: 29, H0341: 22, L0361: 22, L0748: 19, H0657: 18, H0648: 18, S0360: 17, H0670: 17, S0358: 16, H0170: 15, H0144: 14, L0752: 14, L0757: 13, L0758: 13, S0007: 12, H0494: 12, L0520: 12, H0543: 12, L0471: 11, L0521: 11, L0767: 11, H0659: 11, L0749: 11, L0783: 10, H0305: 9, S0046: 9, H0615: 9, L0754: 9, H0624: 8, H0014: 8, L0663: 8, S0126: 8, H0672: 8, L0591: 8, L0604: 8, H0136: 8, S0045: 7, H0031: 7, H0633: 7, H0436: 7, S0028: 7, H0125: 6, S0132: 6, H0411: 6, H0392: 6, H0574: 6, T0109: 6, S0438: 6, L0762: 6,		
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					T0082: 2, S0010: 2, S0182: 2, H0318: 2, H0309: 2, T0115: 2, T0110: 2, H0012: 2, H0023: 2, H0024: 2, H0057: 2, H0015: 2, H0687: 2, H0286: 2, S0003: 2, H0688: 2, H0428: 2, T0006: 2, S0036: 2, H0090: 2, H0040: 2, H0059: 2, H0625: 2, H0646: 2, S0210: 2, L0598: 2, L0763: 2, L0500: 2, L0501: 2, L0549: 2, L0803: 2, L0376: 2, L0653: 2, L0542: 2, H0547: 2, H0214: 2, H0187: 2, S0392: 2, S0390: 2, L0742: 2, H0444: 2, L0596: 2, L0589: 2, L0590: 2, L0581: 2, L0599: 2, L0603: 2, H0668: 2, H0653: 2, S0192: 2, H0542: 2, S0452: 2, H0506: 2, L0615: 1, H0394: 1, H0159: 1, S0134: 1, H0583: 1, H0656: 1, L0760: 1,				
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HISBE12	1056376	832	53 - 1276	3007	Leu-76 to Lys-84, Lys-90 to Leu-97, His-115 to Thr-120, Pro-128 to Trp-136, Asp-393 to Ala-403.	H0641: 1, H0647: 1, S0144: 1, S0142: 1, L0640: 1, L0637: 1, L0646: 1, L0764: 1, L0363: 1, L0794: 1, L0766: 1, L0499: 1, L0522: 1, L0774: 1, L0775: 1, L0651: 1, L0378: 1, L0805: 1, L0509: 1, L0652: 1, L0555: 1, L0513: 1, L0656: 1, L0559: 1, L0384: 1, L0809: 1, L0529: 1, L0368: 1, L0532: 1, H0691: 1, H0520: 1, H0519: 1, H0684: 1, H0651: 1, S0454: 1, S0013: 1, S0406: 1, H0478: 1, L0744: 1, L0439: 1, L0731: 1, H0343: 1, L0592: 1, L0485: 1, L0608: 1, L0593: 1, H0217: 1, H0216: 1, H0008: 1 and H0352: 1.		
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									H0539: 8, H0046: 3, H0039: 2, H0553: 2, H0090: 2, L0750: 2, L0605: 2, S0282: 1, H0431: 1, H0036: 1, H0421: 1, H0196: 1, T0003: 1, S6028: 1, H0252: 1, H0031: 1, H0111: 1, H0591: 1, H0412: 1, T0068: 1, S0044: 1, L0752: 1, H0445: 1 and L0581: 1.			
HAJAH48	1056400	833	1 - 210	3008		Lys-10 to Ser-16, Pro-30 to Ala-36.	H0635: 1 and H0561: 1.					
HSKJC61	1056407	834	210 - 1436	3009		His-8 to Gly-18, Pro-58 to Lys-68, Gln-109 to Lys-115, Val-175 to Pro-180, Ser-221 to Asp-228, Thr-256 to His-261, Asp-287 to Asp- 294, Thr-321 to Asp-328, Asn-349 to Ile-357, Phe-376 to Glu-386, Pro-396 to Ser-409.	AR089: 3, AR055: 3, AR096: 3, AR060: 2, AR061: 2, AR053: 2, AR039: 2, AR104: 2, AR033: 2 S0132: 2, S0358: 1, H0615: 1, T0023: 1, H0435: 1, S3014: 1, L0740: 1, L0591: 1 and L0362: 1.					
HEEBK29	1056454	835	1015 - 3060	3010				21q22.3		120220, 120240, 123580, 151385,		

								171860, 190685, 236100, 236200, 240300, 267750, 600065, 601072, 601145
HCHMM19	1056617	836	1 - 1182	3011			L0751: 25, L0665: 23, H0656: 12, L0743: 10, H0617: 9, H0620: 8, L0657: 8, H0318: 7, H0658: 7, H0650: 5, H0483: 5, H0657: 4, H0012: 4, H0024: 4, H0689: 4, H0341: 3, H0484: 3, H0618: 3, H0253: 3, H0688: 3, H0659: 3, H0670: 3, L0603: 3, S0358: 2, H0052: 2, H0615: 2, H0264: 2, H0100: 2, L0763: 2, L0637: 2, L0651: 2, L0659: 2, L0791: 2, L0663: 2, H0555: 2, L0748: 2, L0779: 2, S0282: 1, H0255: 1, H0306: 1, S0045: 1, L0717: 1,	

						L0394: 1, H0549: 1, S6016: 1, S0222: 1, H0455: 1, H0635: 1, H0427: 1, S0280: 1, H0042: 1, H0122: 1, H0123: 1, H0050: 1, L0163: 1, H0356: 1, H0399: 1, H0594: 1, H0252: 1, H0553: 1, H0181: 1, H0673: 1, L0638: 1, L0639: 1, L0662: 1, L0766: 1, L0804: 1, L0666: 1, H0690: 1, H0682: 1, H0684: 1, H0435: 1, H0660: 1, H0672: 1, L0754: 1, L0758: 1, S0458: 1, S0456: 1 and H0352: 1.		
HE8NG02	1056625	837	85 - 1041	3012	Thr-2 to Asn-10, Ser-72 to Lys-78, Gly-95 to Thr-101, Phe-134 to Ile-147, Lys-163 to Lys-172, Gln-199 to Glu-206, Ala-212 to Trp-224, Lys-230 to His-236, Arg-238 to Glu-244, Asp-249 to Gly-254, Met-260 to Tyr-266.	AR052: 4, AR039: 3, AR055: 3, AR060: 3, AR061: 3, AR089: 2, AR033: 2, AR053: 2, AR096: 1, AR104: 1 H0624: 4, H0170: 3, H0328: 3, H0329: 2, H0013: 2, L0747: 2, L0777: 2, H0046: 1 and L0759: 1.		

HWHKD22	1056654	838	1287 - 601	3013	Arg-272 to Arg-279. Thr-32 to His-38, Thr-46 to Asn-55, Asn-158 to Gly-165, Thr-191 to Asn-199.	AR096: 14, AR089: 14, AR033: 10, AR061: 8, AR060: 8, AR052: 7, AR055: 6, AR053: 5, AR104: 3, AR039: 2 L0766: 3, L0659: 3, L0744: 3, L0794: 2, L0805: 2, L0665: 2, H0648: 2, H0305: 1, H0586: 1, H0599: 1, H0428: 1, H0551: 1, S0038: 1, S0422: 1, L0763: 1, L0637: 1, L0662: 1, L0803: 1, L0804: 1, L0806: 1, L0776: 1, L0655: 1, L0661: 1, L0787: 1, S0374: 1, H0520: 1, L0740: 1, L0750: 1, L0777: 1, L0752: 1, L0759: 1 and L0592: 1.		
HOC PJ87	1056666	839	22 - 1125	3014	Glu-5 to His-15, Phe-20 to Lys-41, Gln-43 to Tyr-49, Asn-146 to Thr-152, His-157 to Phe-164, Arg-181 to Gly-191, Lys-219 to Asn-224,	L0777: 6, L0766: 5, L0747: 5, L0744: 4, H0660: 3, L0750: 3, H0657: 2, L0769: 2, S0298: 1, S0360: 1, H0730: 1, H0592: 1, H0544: 1, H0629: 1,	18p11.3- p11.2	142946, 202200

HAAAA59	1056671	840	3 - 2765	3015	<p>Lys-261 to Leu-278, Thr-291 to Asn-297, Glu-302 to Thr-312, Ser-316 to Thr-342, Gln-344 to Asp-367.</p>	<p>S0334: 1, S0003: 1, H0591: 1, H0641: 1, L0598: 1, H0529: 1, L0762: 1, L0502: 1, L0763: 1, L0372: 1, L0646: 1, L0644: 1, L0768: 1, L0775: 1, L0806: 1, L0527: 1, H0144: 1, L0438: 1, H0690: 1, H0658: 1, H0648: 1, S0146: 1, S0406: 1, L0740: 1, L0751: 1, L0749: 1, L0779: 1, L0755: 1, L0731: 1, L0758: 1, L0759: 1, S0434: 1 and H0506: 1.</p>		
					<p>Lys-6 to Ser-15, Ser-23 to Ala-28, Thr-81 to Gln-89, Gln-191 to Gly-198.</p>	<p>H0694: 92, L0766: 9, L0747: 8, S0126: 7, L0439: 7, H0266: 6, L0776: 6, L0666: 6, L0748: 6, L0759: 6, H0622: 5, H0038: 5, H0623: 5, L0763: 5, L0659: 5, H0656: 4, S0358: 4, S0476: 4, H0486: 4, H0013: 4, L0598: 4, H0529: 4, L0662: 4, L0805: 4, L0655: 4, L0663: 4,</p>		



					H0521: 4, S0434: 4, H0657: 3, H0497: 3, H0574: 3, H0328: 3, H0615: 3, H0644: 3, H0551: 3, L0770: 3, L0764: 3, L0665: 3, H0144: 3, S0374: 3, H0547: 3, H0659: 3, S0330: 3, L0752: 3, H0445: 3, S0436: 3, H0717: 2, H0638: 2, S0045: 2, L0717: 2, S0414: 2, H0485: 2, S0280: 2, H0156: 2, S0010: 2, H0032: 2, H0494: 2, S0440: 2, S0422: 2, L0667: 2, L0646: 2, L0768: 2, L0652: 2, L0438: 2, H0658: 2, H0539: 2, S0044: 2, H0555: 2, L0744: 2, L0751: 2, L0749: 2, L0777: 2, L0731: 2, L0758: 2, L0592: 2, L0581: 2, L0593: 2, H0653: 2, S0276: 2, H0543: 2, L0411: 1, H0556: 1, H0220: 1, H0738: 1, S0114: 1, T0049: 1,
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HOSBJ18	1056672	841	422 - 2026	3016	Ile-15 to Lys-33, Phe-99 to Lys-104, Ile-107 to Cys-114.	L0521: 1, L0649: 1, L0389: 1, L0803: 1, L0804: 1, L0775: 1, L0661: 1, L0629: 1, L0657: 1, L0367: 1, L0789: 1, L0664: 1, H0520: 1, H0519: 1, H0593: 1, H0689: 1, H0670: 1, H0672: 1, S0378: 1, H0518: 1, S0152: 1, S0350: 1, H0522: 1, H0704: 1, S0406: 1, S0390: 1, S0027: 1, L0756: 1, L0779: 1, L0780: 1, L0757: 1, L0596: 1, L0588: 1, L0589: 1, L0366: 1, S0011: 1, S0026: 1, H0665: 1, S0194: 1, H0423: 1, S0424: 1 and H0008: 1.		
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					H0163: 2, H0090: 2, H0488: 2, L0649: 2, L0775: 2, H0660: 2, L0751: 2, L0756: 2, L0755: 2, L0758: 2, L0759: 2, L0596: 2, H0624: 1, S0046: 1, H0645: 1, H0586: 1, H0250: 1, H0156: 1, H0318: 1, T0071: 1, S0049: 1, H0457: 1, L0471: 1, H0057: 1, H0239: 1, H0266: 1, H0687: 1, S0003: 1, H0615: 1, H0553: 1, H0644: 1, H0316: 1, H0598: 1, H0591: 1, S0294: 1, S0150: 1, UNKWN: 1, L0763: 1, L0646: 1, L0766: 1, L0375: 1, L0527: 1, L0659: 1, L0518: 1, L0438: 1, H0593: 1, H0435: 1, H0648: 1, S0380: 1, S0152: 1, H0521: 1, H0627: 1, S0390: 1, L0745: 1, L0750: 1, L0777: 1, L0752: 1, L0362: 1 and H0543: 1				
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HUSGX12	1056736	842	2 - 838	3017	Arg-1 to Thr-6, Arg-86 to Gly-91, Ser-102 to Leu-107, Leu-111 to Arg-122, Arg-140 to Gly-145, Glu-170 to Ser-195, Pro-200 to Thr-221, Gly-234 to Asp-250.	L0750: 4, H0622: 3, L0792: 3, H0619: 2, H0050: 2, L0759: 2, H0624: 1, H0661: 1, L0005: 1, S0376: 1, S0360: 1, H0575: 1, H0597: 1, H0687: 1, H0412: 1, L0065: 1, L0761: 1, L0800: 1, L0794: 1, L0784: 1, L0807: 1, H0690: 1, H0672: 1, S0206: 1, L0748: 1, L0751: 1, L0747: 1, L0779: 1 and H0445: 1.		
HPDRG02	1056764	843	2 - 1405	3018		S0360: 18, L0794: 15, L0748: 13, L0740: 10, H0521: 9, L0666: 8, L0766: 7, L0439: 7, H0046: 6, H0031: 6, L0803: 6, L0783: 6, H0547: 6, S0436: 6, L0595: 6, H0318: 5, H0494: 5, L0769: 5, L0764: 5, L0779: 5, S0192: 5, H0486: 4, L0770: 4, H0658: 4, S0152: 4, L0751: 4, L0747: 4, L0750: 4, L0777: 4, L0757: 4,	7	

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HKZBB48	1056767	844	230 - 1660	3019	Ser-6 to Asp-14, Asp-24 to Glu-32, Asn-56 to Gln-62, Pro-83 to Pro-92, Glv-152 to Glu-169	H0379: 1, H0264: 1, H0056: 1, H0561: 1, S0450: 1, S0150: 1, H0647: 1, S0144: 1, S0426: 1, L0640: 1, L0763: 1, L0638: 1, L0639: 1, L0637: 1, L0372: 1, L0771: 1, L0773: 1, L0649: 1, L0804: 1, L0650: 1, L0774: 1, L0776: 1, L0807: 1, L0657: 1, L0368: 1, L0791: 1, L0793: 1, L0665: 1, H0144: 1, L0352: 1, H0520: 1, H0435: 1, H0659: 1, H0670: 1, H0648: 1, S0330: 1, H0522: 1, H0631: 1, S0206: 1, L0752: 1, L0755: 1, L0758: 1, L0759: 1, S0260: 1, S0026: 1, H0542: 1, H0422: 1, H0506: 1 and H0008: 1.	L0754: 5, L0758: 5, L0777: 4, L0752: 4, H0574: 3, S0003: 3, L0803: 3, L0790: 3, L0666: 3, H0624: 2,	5q23.3- q31.1	121050, 131400, 147061, 147575, 147575.
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Arg-376 to Lys-384, Glu-393 to Ser-406, Ser-441 to Gly-453.	S0358: 2, S0222: 2, L0369: 2, L0771: 2, L0768: 2, L0804: 2, L0774: 2, L0775: 2, L0776: 2, L0663: 2, H0539: 2, L0742: 2, L0748: 2, L0439: 2, L0750: 2, L0756: 2, L0779: 2, H0170: 1, L0002: 1, L0785: 1, S0356: 1, S0360: 1, H0580: 1, H0411: 1, H0437: 1, H0586: 1, H0497: 1, H0013: 1, L0021: 1, H0263: 1, H0050: 1, S0388: 1, H0060: 1, H0674: 1, H0090: 1, H0591: 1, L0564: 1, S0440: 1, L0648: 1, L0521: 1, L0794: 1, L0806: 1, L0655: 1, L0657: 1, L0783: 1, L0809: 1, L0789: 1, L0664: 1, H0144: 1, H0519: 1, H0689: 1, H0683: 1, H0704: 1, H0555: 1, L0740: 1, L0745: 1, L0749: 1, L0731: 1, L0759: 1 and L0601: 1	147575, 153455, 159000, 179095, 181460, 192974, 192974, 600807, 601596, 602089
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HHAWB19	1056774	845	3 - 1316	3020	Pro-1 to Pro-9.	S0418: 1, H0580: 1, S0278: 1, H0013: 1, H0046: 1 and H0547: 1.	1q42-q44	106150, 106150, 145260, 173870, 173870, 600759, 600996, 601744, 601975
HHATP38	1056786	846	3 - 650	3021	Arg-16 to Arg-22, Ser-52 to Lys-62, Ala-73 to Arg-78, Arg-153 to Leu-169, Arg-172 to Leu-195, Glu-203 to Arg-216.	AR104: 5, AR089: 5, AR060: 2, AR055: 2, AR096: 2, AR061: 1	11q13	102200, 106100, 131100, 131100, 131100, 133780, 147050, 153700, 161015, 164009, 168461, 168461, 168461, 180721, 180840, 191181, 193235, 209901, 232600, 259700, 259770,

								600045, 600319, 600528, 601884
HVVB07	1056801	847	645 - 983	3022	Tyr-47 to Arg-58.	S0053: 3, H0551: 2, S0418: 1, S0046: 1, H0486: 1, H0355: 1, L0771: 1, H0672: 1, S0206: 1, L0605: 1 and S0276: 1.		
HKAHB85	1056804	848	1 - 831	3023	Val-212 to Phe-223.	L0731: 9, H0617: 7, L0769: 7, L0809: 6, L0806: 5, S0328: 5, L0745: 4, L0764: 3, L0754: 3, H0624: 2, S0360: 2, H0550: 2, H0333: 2, H0086: 2, H0011: 2, H0266: 2, H0615: 2, H0424: 2, H0494: 2, L0770: 2, L0794: 2, L0649: 2, L0803: 2, L0804: 2, L0774: 2, L0493: 2, L0666: 2, H0658: 2, L0742: 2, L0743: 2, L0747: 2, L0755: 2, L0757: 2, L0591: 2, L0593: 2, L0697: 2, S0424: 2, H0170: 1, H0556: 1, H0294: 1,	19p13.1	143890, 151440, 600173, 600276, 600310, 600310, 601604, 601843

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HUSXA15	1056810	849	303 - 1	3024	S0212: 20, L0751: 14, L0663: 11, L0731: 11, H0083: 10, L0657: 10, L0666: 10, H0547: 10, H0550: 7, H0620: 6, L0769: 6, H0689: 6, H0123: 5, H0428: 5, L0662: 5, S0356: 4, H0059: 4, L0664: 4, H0520: 4, H0670: 4, L0581: 4, S0418: 3, L0717: 3, H0618: 3, H0494: 3, S0438: 3, L0770: 3, L0659: 3, H0683: 3, H0660: 3, L0747: 3, L0758: 3, S0434: 3, H0543: 3, H0624: 2, H0295: 2, H0341: 2, H0662: 2, S0358: 2, S0360: 2, H0675: 2, S0408: 2, H0251: 2, H0051: 2, H0594: 2, H0687: 2, H0615: 2, H0031: 2, H0413: 2, H0100: 2, L0637: 2, L0648: 2, L0803: 2, L0774: 2, L0783: 2, L0665: 2, S0374: 2, S0126: 2, H0658: 2, H0672: 2,	2q33-q34	100730, 118800, 123660, 135600, 157655, 186860, 201460, 205100, 213700, 262000, 600258, 601277, 601318
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HNOCH54	1056839	850	1 - 1953	3025		Pro-8 to Glu-16, Lys-29 to Gly-34, Gly-85 to Glu-92, Lys-165 to Glu-172, Glu-180 to Ser-186, Ser-210 to Arg-215, Glu-278 to Gln-288, Lys-377 to Glu-383, Lys-405 to Gly-410, Lys-468 to Glu-474, Asn-483 to Arg-488, Gln-496 to Glu-502, Val-555 to Gly-561, Glu-611 to Pro-623, Lys-631 to Trp-638, Phe-641 to Gly-649.					
HOCPP16	1056856	851	1039 - 392	3026		Gly-20 to Tyr-30, Asn-40 to Glu-46, Ser-66 to Gly-75, Lys-85 to Gly-97, Glu-104 to Arg-115, Pro-135 to Pro-140, Pro-150 to Asn-159,		S0212: 20, L0751: 14, L0663: 11, L0731: 11, H0083: 10, L0657: 10, L0666: 10, H0547: 10, H0550: 7, H0620: 6, L0769: 6, H0689: 6, H0123: 5, H0428: 5,			

Leu-167 to Glu-173, Ile-191 to Glu-196, Val-210 to Gln-216.	L0662: 5, S0356: 4, H0059: 4, L0664: 4, H0520: 4, H0670: 4, L0581: 4, S0418: 3, L0717: 3, H0618: 3, H0494: 3, S0438: 3, L0770: 3, L0659: 3, H0683: 3, H0660: 3, L0747: 3, L0758: 3, S0434: 3, H0543: 3, H0624: 2, H0295: 2, H0341: 2, H0662: 2, S0358: 2, S0360: 2, H0675: 2, S0408: 2, H0251: 2, H0051: 2, H0594: 2, H0687: 2, H0615: 2, H0031: 2, H0413: 2, H0100: 2, L0637: 2, L0648: 2, L0803: 2, L0774: 2, L0783: 2, L0665: 2, S0374: 2, S0126: 2, H0658: 2, H0672: 2, S0378: 2, S0406: 2, L0439: 2, L0605: 2, H0352: 2, H0170: 1, H0686: 1, H0685: 1, H0294: 1, S0180: 1, S0298: 1, H0661: 1, H0664: 1, S0420: 1,				
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HNOAH83	1056862	852	3 - 848	3027	Val-2 to Val-7.	S0442: 1, S0354: 1, S0376: 1, H0637: 1, H0329: 1, S0007: 1, H0208: 1, H0645: 1, H0549: 1, H0391: 1, H0392: 1, H0331: 1, H0632: 1, T0109: 1, H0575: 1, H0545: 1, H0009: 1, H0024: 1, H0057: 1, H0373: 1, H0188: 1, H0288: 1, H0286: 1, H0644: 1, H0617: 1, H0606: 1, H0087: 1, L0564: 1, S0440: 1, L0772: 1, L0374: 1, L0794: 1, L0652: 1, L0653: 1, L0809: 1, L0543: 1, H0693: 1, H0593: 1, H0690: 1, H0682: 1, H0684: 1, H0666: 1, S0330: 1, S0380: 1, H0696: 1, H0555: 1, S0027: 1, L0748: 1, L0750: 1, L0779: 1, L0755: 1, L0759: 1, H0445: 1, S0436: 1, L0597: 1, L0599: 1, H0542: 1 and S0384: 1.	11p15.5	125852,
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L0439: 11, L0743: 10, L0751: 10, H0295: 8, L0757: 8, S0212: 7, S0360: 7, L0662: 7, H0551: 6, H0494: 6, S0027: 6, L0779: 6, H0550: 5, H0575: 5, H0253: 5, H0039: 5, L0659: 5, H0521: 5, L0747: 5, S0408: 4, S0046: 4, H0427: 4, H0599: 4, H0546: 4, H0014: 4, L0764: 4, L0774: 4, L0438: 4, S0126: 4, H0672: 4, L0731: 4, S0434: 4, H0255: 3, H0662: 3, S0354: 3, S0358: 3, S0045: 3, H0370: 3, S0280: 3, H0309: 3, H0046: 3, H0266: 3, H0412: 3, H0413: 3, S0440: 3, H0509: 3, L0769: 3, L0775: 3, L0666: 3, H0520: 3, S0330: 3, H0539: 3, L0744: 3, L0777: 3, S0011: 3, S0192: 3, H0484: 2, H0661: 2, S0420: 2, S0356: 2,	126452, 126452, 141900, 141900, 141900, 141900, 141900, 141900, 141900, 142000, 142000, 142200, 142250, 142270, 176730, 176730, 176730, 190020, 191290, 192500, 192500, 194071, 194071, 204500, 600856, 601680, 602631, 602631
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HE2OU10	1056875	853	79 - 480	3028	Gln-34 to Ala-45, Glu-47 to Leu-52, Lys-113 to Gln-121.	L0806: 1, L0654: 1, L0629: 1, L0657: 1, L0656: 1, L0809: 1, L0647: 1, L0790: 1, L0665: 1, H0593: 1, H0689: 1, H0690: 1, H0435: 1, H0670: 1, S0328: 1, S0378: 1, S0380: 1, H0696: 1, S0406: 1, H0478: 1, H0631: 1, S3012: 1, S0028: 1, S0206: 1, L0750: 1, L0755: 1, L0759: 1, L0596: 1, L0597: 1, S0026: 1, H0665: 1, H0543: 1 and S0424: 1.	22q13.2- q13.31	188826, 250100, 250800, 250800
						L0743: 4, L0749: 4, L0731: 4, H0265: 2, H0213: 2, H0169: 2, H0038: 2, H0543: 2, H0170: 1, H0556: 1, H0341: 1, H0661: 1, S0420: 1, S0360: 1, H0639: 1, H0438: 1, H0036: 1, H0253: 1, S0010: 1, H0052: 1, H0327: 1, H0530: 1, H0009: 1, L0471: 1, H0644: 1, L0055: 1,		

								S0144: 1, S0002: 1, L0775: 1, H0691: 1, H0659: 1, H0648: 1, S0350: 1, S3012: 1, L0748: 1, L0740: 1, L0754: 1, L0747: 1, L0750: 1, L0753: 1, L0755: 1, L0758: 1 and S0276: 1.			
HODGM46	1056927	854	884 - 738	3029	Ser-13 to His-19, Gly-41 to Arg-49.			H0615: 3			
HODFR44	1056990	855	2 - 469	3030	Arg-17 to Lys-33.			AR055: 28, AR053: 28, AR033: 26, AR052: 22, AR089: 20, AR061: 13, AR060: 13, AR039: 11, AR096: 10, AR104: 5 L0751: 4, L0439: 3, L0777: 3, L0779: 2, L0758: 2, H0650: 1, H0328: 1, H0615: 1, L0435: 1, L0769: 1, L0649: 1, L0650: 1, L0774: 1, L0376: 1, L0789: 1 and H0343: 1.			
HCHND12	1057009	856	100 - 333	3031	Arg-27 to Trp-35.			H0664: 9, H0370: 8, H0059: 8, H0483: 4, S0410: 4, L0751: 4, L0747: 4, L0750: 4, H0484: 3, L0664: 3,	17q11.2- 17q12	144200, 148066, 148066, 148067, 148067,	

[illegible]

							L0731: 1, L0605: 1 and L0600: 1.		
HBHAC29	1057157	857	2 - 553	3032			S0051: 4, H0441: 3, S0036: 3, L0769: 3, L0438: 3, L0439: 3, H0687: 2, L0665: 2, S0031: 2, S6024: 1, S0029: 1, H0455: 1, H0052: 1, L0638: 1, L0639: 1, S0053: 1 and L0742: 1.	19q13.1	164731, 172400, 172400, 180901, 180901, 221770, 248600, 600918, 602716
HTPFW87	1057170	858	2 - 2206	3033		Ala-65 to Gly-77, Leu-79 to Lys-85, Gln-95 to Asp-103, Gln-113 to Ser-119, Ser-230 to Gly-235, Lys-358 to Phe-368, Gln-397 to Thr-407, Pro-474 to Val-484, Asn-494 to Asp- 505, Glu-513 to Gly-521, Ser-532 to Arg-539, Thr-557 to Thr-562, Pro-566 to Glu-571, Pro-577 to Glu-582.	H0622: 42, S0380: 10, S0368: 3, H0040: 1, H0519: 1 and S0378: 1.		
HISAF60	1057212	859	2 - 988	3034		Arg-8 to Pro-18, Asp-76 to Arg-83, Glu-85 to Thr-94, Arg-139 to Ile-145,	AR039: 13, AR033: 12, AR104: 11, AR053: 10, AR055: 9, AR052: 9, AR089: 9, AR096:		



Gln-180 to Asp-196, 3	8, AR060: 5, AR061: 3				
Thr-201 to Ser-213, 3					
Lys-230 to Gln-235,	L0731: 12, L0747: 9,				
Asn-293 to Gly-309,	H0651: 5, L0759: 5,				
Thr-315 to Phe-321.	H0644: 4, H0013: 3,				
	L0748: 3, L0439: 3,				
	L0779: 3, H0575: 2,				
	H0052: 2, H0327: 2,				
	H0050: 2, H0083: 2,				
	L0769: 2, L0662: 2,				
	L0438: 2, H0539: 2,				
	L0743: 2, L0750: 2,				
	L0588: 2, H0716: 1,				
	L0002: 1, L0443: 1,				
	S0001: 1, S0360: 1,				
	H0645: 1, H0411: 1,				
	H0587: 1, H0333: 1,				
	H0486: 1, S0010: 1,				
	S0050: 1, H0051: 1,				
	H0428: 1, H0553: 1,				
	H0032: 1, L0455: 1,				
	S0036: 1, H0038: 1,				
	H0412: 1, H0413: 1,				
	H0100: 1, T0042: 1,				
	L0770: 1, L0637: 1,				
	L0766: 1, L0649: 1,				
	L0774: 1, L0776: 1,				
	L0655: 1, L0659: 1,				
	L0783: 1, L0529: 1,				
	L5623: 1, L0790: 1,				

							L0791: 1, H0520: 1, H0519: 1, H0593: 1, H0689: 1, H0670: 1, H0672: 1, H0696: 1, S3014: 1, L0741: 1, L0744: 1, L0757: 1, L0608: 1 and S0398: 1.			
HRABO80	1057219	860	1521 - 1937	3035	Ala-1 to Ser-7, Gln-108 to Ser-117.		L0743: 4, L0751: 4, H0252: 3, L0659: 3, H0586: 2, H0135: 2, H0038: 2, L0438: 2, H0670: 2, L0779: 2, H0624: 1, S0430: 1, S0222: 1, H0052: 1, L0471: 1, T0010: 1, H0428: 1, H0616: 1, T0067: 1, L0564: 1, H0646: 1, L0662: 1, L0774: 1, L0783: 1, H0144: 1, S0126: 1, H0660: 1, H0651: 1, H0555: 1, L0749: 1, L0750: 1, L0752: 1, L0758: 1 and S0194: 1.			
HADDF30	1057260	861	1 - 1155	3036	Arg-49 to Leu-55, Arg-61 to Cys-69, Arg-87 to Arg-102, Asn-119 to Lys-125, Cys-132 to Met-151, Ser-157 to Glu-164,		L0777: 3, L0803: 2, L0774: 2, L0602: 2, L0596: 2, L0588: 2, S0376: 1, H0431: 1, H0427: 1, H0266: 1, H0328: 1, H0615: 1,	3q24-q28	106165, 117700, 117700, 165500, 169600, 180380,	

					Asn-187 to Glu-210, Glu-235 to Thr-243, Lys-245 to Val-251, His-256 to Ser-268, Ser-277 to Ser-288, Leu-303 to Glu-317, Glu-328 to Gln-341, Ser-350 to Leu-355, Ser-357 to Asn-364.		L0523: 1, L0659: 1, L0809: 1, L0666: 1, H0660: 1, S0378: 1 and L0750: 1.		180380, 180380, 276902, 600700, 601199, 601199, 601199, 601682
HDAAS58	1057272	862	245 - 460	3037	Asn-37 to Arg-45.		AR096: 4, AR089: 2, AR033: 2, AR060: 1, AR053: 1, AR055: 1, AR061: 1, AR104: 1, AR039: 0, AR052: 0 H0052: 4, L0768: 3, L0766: 3, L0438: 3, L0748: 3, L0750: 3, H0657: 2, H0341: 2, H0484: 2, T0042: 2, L0665: 2, H0658: 2, L0743: 2, L0744: 2, L0756: 2, L0777: 2, H0556: 1, H0656: 1, S0420: 1, H0393: 1, L0717: 1, S0222: 1, H0497: 1, H0486: 1, H0013: 1, H0263: 1, N0006: 1, L0579: 1, H0620: 1, L0163: 1, H0594: 1, H0267: 1,		

								H0615: 1, H0688: 1, H0494: 1, H0538: 1, L0769: 1, L0772: 1, L0643: 1, L0794: 1, L0649: 1, L0804: 1, L0774: 1, L0375: 1, L0776: 1, L0789: 1, L0792: 1, L0666: 1, H0144: 1, H0520: 1, H0711: 1, H0690: 1, L0439: 1, L0754: 1, L0745: 1, L0747: 1, L0786: 1, L0780: 1, L0752: 1, H0542: 1 and H0352: 1.			
HSDZG15	1057307	863	3 - 737	3038	Thr-92 to Gln-106, Val-222 to Val-227, Glu-229 to Asp-245.			H0556: 1, H0455: 1 and H0660: 1.			
HPDVY52	1057393	864	3 - 1391	3039				H0550: 3, L0751: 3, S0356: 2, H0024: 2, H0014: 2, H0059: 2, H0689: 2, H0690: 2, H0661: 1, H0645: 1, H0549: 1, H0052: 1, H0172: 1, H0123: 1, H0081: 1, H0266: 1, H0288: 1, H0553: 1, H0135: 1, H0494: 1, H0646: 1, L0649: 1, H0593: 1, H0682: 1,	20q13.2- q13.3	118504, 118504, 131242, 139320, 139320, 139320, 139320, 139320, 602025, 602235	

								H0658: 1, H0672: 1, H0555: 1, L0439: 1, L0747: 1, S0276: 1 and H0506: 1.		
HHESW02	1057478	865	2 - 1252	3040	Arg-20 to Gly-28, Glu-41 to Asn-55, Asp-62 to Thr-74, Glu-105 to Thr-118, Ala-144 to Ser-158, Gln-200 to Glu-205, Cys-212 to Gly-217, Pro-231 to Phe-238, Gln-259 to Glu-264, Glu-282 to Tyr-288, Lys-300 to Asn-305, His-351 to Thr-358, Arg-399 to Cys-407.		H0556: 7, H0543: 7, H0265: 3, S0278: 3, S0002: 3, H0445: 3, H0657: 2, H0663: 2, H0580: 2, S0003: 2, H0090: 2, S0144: 2, S0152: 2, S0206: 2, H0542: 2, H0656: 1, H0125: 1, H0351: 1, H0575: 1, S0182: 1, H0023: 1, H0373: 1, H0375: 1, H0591: 1, H0040: 1, H0264: 1, T0041: 1, T0042: 1, S0142: 1, H0521: 1, H0214: 1, H0436: 1, L0750: 1, L0757: 1, S0242: 1, H0423: 1 and H0422: 1.			
HVVBW84	1057561	866	327 - 1625	3041	Cys-24 to Gly-35, Ala-42 to Glu-47, Gln-181 to Asp-188, Val-264 to Pro-270, Asn-289 to Gly-294, Leu-325 to Tyr-330, Gly-353 to Leu-360,		L0751: 19, L0659: 9, H0550: 8, H0545: 6, S0360: 5, H0620: 5, H0309: 4, H0050: 4, H0135: 4, L0754: 4, L0747: 4, L0731: 4, H0170: 3, H0253: 3,			

					Asn-379 to Asp-388.	H0024: 3, H0687: 3, H0124: 3, L0375: 3, H0144: 3, H0672: 3, S0196: 3, H0619: 2, H0586: 2, H0427: 2, H0546: 2, H0622: 2, H0628: 2, H0087: 2, H0100: 2, L0764: 2, L0519: 2, L0664: 2, S0028: 2, L0439: 2, L0758: 2, L0759: 2, H0343: 2, S0192: 2, S0212: 1, H0663: 1, H0662: 1, S0356: 1, H0208: 1, S0300: 1, H0549: 1, S0222: 1, H0392: 1, H0592: 1, H0618: 1, H0196: 1, H0052: 1, H0251: 1, H0232: 1, H0544: 1, H0041: 1, H0188: 1, S0250: 1, L0053: 1, H0031: 1, H0553: 1, H0644: 1, H0674: 1, H0163: 1, H0090: 1, H0477: 1, L0770: 1, L0644: 1, L0648: 1, L0662: 1, L0806: 1, L0776: 1, L0542: 1, L0546: 1, L0783: 1,		
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							L0789: 1, L0666: 1, L0663: 1, L0438: 1, H0684: 1, H0651: 1, S0044: 1, L0744: 1, L0584: 1, L0485: 1, L0361: 1, S0194: 1 and H0008: 1.			
HEAAC39	1057603	867	1365 - 1511	3042	Arg-12 to Gln-25, Gly-31 to Gly-38.		AR039: 5, AR053: 5, AR089: 4, AR060: 3, AR061: 3, AR055: 2, AR096: 1, AR033: 1, AR104: 0 L0747: 4, L0777: 3, L0657: 2, L0759: 2, L0811: 1, H0369: 1, L0021: 1, S0346: 1, H0009: 1, L0637: 1, L0772: 1, L0375: 1, L0783: 1, L0809: 1, H0659: 1, H0660: 1, L0731: 1 and L0758: 1.			
HSLJC80	1057797	868	143 - 1945	3043	His-12 to Ala-26, Ser-70 to Glu-78, Pro-87 to Pro-94.		AR055: 5, AR060: 5, AR061: 5, AR052: 4, AR033: 4, AR089: 3, AR053: 3, AR096: 2, AR039: 2, AR104: 1 H0550: 9, H0651: 6, S0358: 5, L0659: 5, H0549: 3, H0586: 3, L0662: 3, L0794: 3,			

HEOAD12	1057842	869	332 - 934	3044				L0777: 3, H0575: 2, L0649: 2, L0744: 2, L0756: 2, L0758: 2, H0739: 1, H0716: 1, H0662: 1, H0587: 1, H0706: 1, H0050: 1, H0018: 1, H0200: 1, H0188: 1, H0687: 1, H0644: 1, H0628: 1, H0163: 1, H0100: 1, L0770: 1, L0809: 1, L0788: 1, L0663: 1, H0696: 1, S0406: 1, S0390: 1 and L0749: 1.		
								AR052: 10, AR096: 6, AR053: 4, AR033: 4, AR089: 4, AR039: 4, AR060: 4, AR104: 3, AR055: 3, AR061: 2 L0659: 11, L0665: 11, L0666: 9, L0752: 9, L0731: 9, H0623: 7, L0663: 7, H0658: 7, L0743: 7, L0750: 7, L0662: 6, L0758: 6, L0759: 6, S0045: 5, S0046: 5, H0412: 5, L0776: 5, L0655: 5, L0779: 5, H0437: 4, H0457: 4, L0747: 4,		



	H0422: 4, L0005: 3, S0376: 3, H0411: 3, S0222: 3, H0266: 3, H0553: 3, H0056: 3, L0667: 3, L0764: 3, L0794: 3, L0803: 3, H0436: 3, L0588: 3, L0599: 3, H0543: 3, H0624: 2, H0657: 2, S0116: 2, H0580: 2, H0013: 2, H0439: 2, L0471: 2, L0483: 2, H0413: 2, S0344: 2, L0598: 2, L0763: 2, L0771: 2, L0775: 2, L0809: 2, S0374: 2, H0670: 2, H0648: 2, S0328: 2, S0330: 2, S0136: 2, H0696: 2, S0404: 2, S0028: 2, L0751: 2, L0745: 2, L0755: 2, H0170: 1, H0171: 1, H0583: 1, H0662: 1, H0402: 1, S0442: 1, S0444: 1, S0360: 1, H0722: 1, S0300: 1, H0351: 1, S0278: 1, H0431: 1, H0592: 1, H0333: 1, H0486: 1, H0635: 1,					
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HVVB741	1057880	870	214 - 1272	3045	Leu-1 to Lys-7, Arg-27 to Glu-33, Ala-43 to Gly-66, Ser-78 to Ser-84, Gly-111 to Val-118,	H0318: 1, S0474: 1, H0581: 1, H0421: 1, H0434: 1, H0251: 1, H0150: 1, H0024: 1, H0594: 1, H0179: 1, H0687: 1, H0119: 1, H0644: 1, H0628: 1, S0036: 1, H0038: 1, H0634: 1, T0067: 1, H0433: 1, H0269: 1, H0100: 1, L0065: 1, L0369: 1, L0770: 1, L0648: 1, L0521: 1, L0766: 1, L0804: 1, L0650: 1, L0651: 1, L0632: 1, L0806: 1, L0517: 1, L0518: 1, L0783: 1, L0647: 1, L0664: 1, H0693: 1, H0547: 1, H0659: 1, S0380: 1, H0710: 1, S0190: 1, H0727: 1, L0754: 1, L0756: 1, L0592: 1, H0667: 1, H0136: 1 and S0276: 1.		
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HAZAE42	1057915	871	3 - 659	3046	<p>Glu-140 to Lys-145, Lys-163 to Asp-168, Lys-189 to Phe-197, Arg-257 to Leu-264, Gln-285 to Asp-292, Gly-298 to Ala-308, Arg-314 to Glu-323, Gly-329 to Gly-338, Ser-343 to Leu-353.</p> <p>Pro-8 to Gly-18, Pro-57 to Ser-67, Lys-183 to Trp-191.</p>	<p>L0768: 7, L0750: 6, L0783: 5, H0687: 4, H0428: 4, L0770: 4, H0672: 4, H0031: 3, L0767: 3, L0776: 3, L0665: 3, H0539: 3, L0749: 3, L0755: 3, L0731: 3, L0759: 3, L0608: 3, H0333: 2, H0046: 2, H0009: 2, T0006: 2, H0644: 2, H0059: 2, L0386: 2, L0805: 2, L0809: 2, H0547: 2, L0742: 2, L0747: 2, L0779: 2, L0752: 2, H0624: 1, H0686: 1, H0656: 1, L0778: 1, H0662: 1, H0393: 1, H0369: 1, H0550: 1, H0441: 1, H0574: 1, H0632: 1,</p>		
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HPRBN60	1057948	872	3 - 1019	3047			H0421: 1, H0544: 1, H0123: 1, L0471: 1, H0012: 1, H0356: 1, H0213: 1, H0087: 1, T0069: 1, H0100: 1, H0494: 1, H0509: 1, H0646: 1, S0210: 1, L0520: 1, L0625: 1, L0763: 1, L0371: 1, L0764: 1, L0794: 1, L0774: 1, L0633: 1, L0655: 1, L0807: 1, L0537: 1, H0144: 1, H0691: 1, H0520: 1, H0690: 1, H0670: 1, S0328: 1, S0378: 1, S0380: 1, L0777: 1, L0780: 1, L0753: 1, L0758: 1 and L0697: 1.	4q35	158900, 229000, 264900
HOVCZ68	1057958	873	1 - 987	3048		Phe-1 to Cys-8, Ala-10 to Gly-23, Gln-114 to Lys-120, Glu-129 to Phe-135, Ile-155 to Gln-160, Ser-193 to Thr-199, Asp-214 to Gly-226, Asp-236 to Gly-245, Ala-283 to Arg-288, Ala-322 to Asp-331.	L0439: 9, H0550: 6, S0366: 6, S0364: 4, H0644: 3, S0358: 2, H0549: 2, H0645: 1, S0222: 1, H0370: 1, H0050: 1, L0471: 1, S0362: 1, H0039: 1, H0032: 1, H0212: 1, H0379: 1, L0438: 1 and S0044: 1.		H0574: 5, S0126: 4,

					Ser-47 to Thr-59, Val-83 to Cys-91, Asn-94 to Arg-100, Asp-120 to Asn-126, Cys-135 to Glu-140, Gln-146 to Cys-153, Pro-184 to Gln-189, Lys-246 to Cys-252, Cys-259 to Asp-265, Ile-304 to Tyr-319.	L0748: 4, L0777: 4, L0759: 4, T0039: 3, H0428: 3, H0644: 3, S0194: 3, H0393: 2, H0331: 2, H0632: 2, L0021: 2, L0632: 2, L0805: 2, L0776: 2, H0436: 2, L0779: 2, H0171: 1, H0685: 1, H0661: 1, S0132: 1, H0333: 1, H0013: 1, H0546: 1, H0011: 1, H0024: 1, S0250: 1, H0038: 1, H0551: 1, T0067: 1, H0494: 1, S0210: 1, L0761: 1, L0794: 1, L0517: 1, L0790: 1, L0791: 1, L0665: 1, H0144: 1, H0689: 1, S0152: 1, L0747: 1, H0653: 1, S0192: 1, S0276: 1 and S0196: 1.			
H6EDF71	1057979	874	2 - 1120	3049	Asp-17 to Gly-23, Lys-89 to Asp-94, Lys-129 to Asp-134, Leu-195 to Glu-204.	L0777: 6, L0666: 3, H0648: 3, H0672: 3, L0747: 3, H0685: 2, S0376: 2, H0553: 2, S0440: 2, H0529: 2, L0775: 2, L0788: 2, L0665: 2, S0152: 2,	3q13.1- q13.2	600467, 600882	

HCOOF60	1058001	875	1 - 855	3050	Gly-28 to Ser-36, Trp-38 to Pro-60, Pro-98 to Thr-104, Pro-113 to Tyr-118, Phe-133 to Gly-140, Pro-186 to Leu-192, Glu-239 to Gly-246, Pro-257 to Lys-269, Lys-273 to Lys-279.	L0599: 2, H0624: 1, H0265: 1, H0222: 1, H0713: 1, H0638: 1, S0354: 1, S0360: 1, S0408: 1, H0370: 1, H0559: 1, H0486: 1, H0581: 1, H0567: 1, H0083: 1, S0003: 1, H0674: 1, H0090: 1, L0475: 1, S0438: 1, S0002: 1, L0646: 1, L0521: 1, L0766: 1, L0651: 1, L0783: 1, L0663: 1, S0374: 1, H0519: 1, H0658: 1, H0696: 1, S0044: 1, S0406: 1, L0750: 1, L0755: 1, H0445: 1, L0366: 1, H0667: 1, S0276: 1, H0543: 1, H0423: 1 and H0506: 1.		
						L0499: 33, L0493: 25, 17 L0514: 10, H0484: 8, H0620: 6, L0769: 6, S0418: 5, S0356: 5, L0766: 5, L0515: 5, L0747: 5, L0779: 5, H0543: 5, H0559: 4, H0618: 4, H0617: 4, H0087: 4, S0422: 4,		

				L0497: 4, L0509: 4, S0376: 3, H0546: 3, H0424: 3, H0551: 3, L0504: 3, H0686: 2, H0545: 2, H0571: 2, H0412: 2, L0507: 2, L0773: 2, L0512: 2, L0783: 2, S0126: 2, L0592: 2, H0136: 2, H0624: 1, H0170: 1, H0171: 1, H0556: 1, S0342: 1, H0341: 1, H0483: 1, H0663: 1, H0305: 1, H0638: 1, S0420: 1, S0444: 1, S0408: 1, H0438: 1, H0333: 1, H0257: 1, T0039: 1, T0109: 1, H0013: 1, H0253: 1, H0251: 1, H0544: 1, H0083: 1, H0288: 1, H0622: 1, H0213: 1, H0068: 1, H0163: 1, H0634: 1, H0616: 1, H0100: 1, T0041: 1, H0641: 1, L0763: 1, L0638: 1, L0639: 1, L0646: 1, L0644: 1, L0648: 1, L0662: 1, L0768: 1, L5564: 1,	
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HVV/BH81	1058059	876	3522 - 1090	3051	Glu-20 to Leu-35, Asp-48 to Gly-54.	L0498: 1, L0806: 1, L0653: 1, L0655: 1, L0606: 1, L0629: 1, L0510: 1, L0511: 1, L0656: 1, L0665: 1, S0052: 1, H0690: 1, H0670: 1, S0328: 1, H0539: 1, S0152: 1, H0521: 1, S0406: 1, L0742: 1, L0748: 1, L0751: 1, L0731: 1, L0758: 1, S0436: 1, L0097: 1, H0542: 1, L0698: 1 and H0506: 1.		
						H0547: 14, H0519: 13, L0803: 12, L0754: 12, H0543: 12, L0794: 10, H0423: 10, H0521: 9, L0748: 9, H0013: 8, L0805: 8, H0046: 7, H0266: 7, S0022: 7, L0439: 7, L0758: 7, L0599: 7, L0471: 6, L0666: 6, L0663: 6, L0731: 6, H0553: 5, H0040: 5, S0422: 5, S0002: 5, H0529: 5, L0659: 5, H0435: 5, S0152: 5, L0750: 5, L0752: 5, L0596: 5,		



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				S0420: 2, S0356: 2, S0476: 2, H0619: 2, H0431: 2, H0333: 2, T0109: 2, H0075: 2, H0599: 2, H0581: 2, H0052: 2, N0006: 2, H0179: 2, T0023: 2, H0644: 2, H0412: 2, H0100: 2, H0561: 2, H0641: 2, S0144: 2, S0344: 2, H0538: 2, S0426: 2, L0500: 2, L0638: 2, L0372: 2, L0497: 2, L0650: 2, L0664: 2, L0438: 2, L0352: 2, S0126: 2, H0660: 2, H0648: 2, H0672: 2, H0436: 2, S3014: 2, L0786: 2, L0779: 2, L0755: 2, L0759: 2, L0362: 2, L0361: 2, L0601: 2, S0026: 2, H0667: 2, S0192: 2, H0542: 2, H0422: 2, L0600: 2, H0556: 1, T0002: 1, H0159: 1, S0114: 1, S0134: 1, H0650: 1, H0656: 1, S0116: 1, S0001: 1, H0484: 1,		
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					H0589: 1, H0458: 1, H0459: 1, H0638: 1, L0005: 1, S0442: 1, S0376: 1, S0444: 1, S0408: 1, S0410: 1, H0489: 1, H0637: 1, S0007: 1, S0045: 1, S0046: 1, S0140: 1, L0476: 1, H0411: 1, S0278: 1, H0550: 1, H0441: 1, H0404: 1, H0600: 1, H0574: 1, H0485: 1, T0039: 1, T0040: 1, L0586: 1, H0069: 1, H0427: 1, S0280: 1, L0021: 1, H0098: 1, H0575: 1, H0004: 1, S0010: 1, S0346: 1, L0105: 1, S0474: 1, S0049: 1, H0251: 1, H0309: 1, T0115: 1, L0738: 1, H0530: 1, L0041: 1, H0009: 1, H0562: 1, H0172: 1, H0620: 1, H0199: 1, H0024: 1, H0057: 1, H0014: 1, H0051: 1, S0051: 1, H0355: 1, H0510: 1, S6028: 1, H0267: 1,
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				S0318: 1, S0316: 1, H0687: 1, S0003: 1, H0328: 1, H0039: 1, H0622: 1, L0194: 1, H0030: 1, H0031: 1, L0142: 1, H0617: 1, H0169: 1, L0455: 1, H0124: 1, H0316: 1, H0090: 1, H0591: 1, H0551: 1, H0488: 1, H0413: 1, T0004: 1, T0041: 1, T0042: 1, L0475: 1, H0625: 1, S0370: 1, S0464: 1, S0440: 1, H0509: 1, S0150: 1, H0130: 1, S0208: 1, UNKWN: 1, L0520: 1, L0763: 1, L0631: 1, L0637: 1, L5575: 1, L0641: 1, L0771: 1, L0773: 1, L0648: 1, L0521: 1, L0662: 1, L0767: 1, L0775: 1, L0378: 1, L0806: 1, L0606: 1, L0661: 1, L0657: 1, L0542: 1, L0384: 1, L0528: 1, L0647: 1, L0367: 1, L0787: 1, L0789: 1, L0532: 1,				
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HSPTJ51	1058172	877	3 - 1004	3052	Gly-6 to Gly-15, Pro-17 to Leu-22, Trp-25 to Leu-70, Asp-72 to Val-86, Asp-151 to Asn-170, Ala-183 to Gln-198, Pro-221 to Pro-227, Pro-236 to Gly-244, Pro-272 to Gly-281, Pro-304 to Asp-318.	H0697: 1, H0702: 1, H0699: 1, S0374: 1, H0723: 1, H0689: 1, H0682: 1, H0659: 1, H0658: 1, H0670: 1, S0328: 1, H0539: 1, H0710: 1, H0696: 1, H0215: 1, H0631: 1, L0751: 1, L0777: 1, L0753: 1, L0757: 1, S0031: 1, S0260: 1, L0686: 1, H0707: 1, S0434: 1, S0436: 1, L0480: 1, L0589: 1, L0605: 1, L0595: 1 and S0011: 1.	3p23-p21	139330, 139360, 150250, 164500, 182280, 227646, 261510, 600163, 600971, 601154, 601226, 601267, 601373
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		H0169: 2, H0090: 2, H0413: 2, S0002: 2, L0372: 2, L0363: 2, L0768: 2, L0766: 2, S0374: 2, L0438: 2, H0547: 2, L0602: 2, L0743: 2, L0750: 2, L0780: 2, H0423: 2, H0422: 2, S0424: 2, H0265: 1, S0212: 1, S0444: 1, S0360: 1, H0733: 1, H0351: 1, H0270: 1, L0586: 1, H0635: 1, H0097: 1, H0421: 1, H0546: 1, H0399: 1, H0266: 1, H0615: 1, H0428: 1, H0553: 1, L0055: 1, H0673: 1, H0124: 1, H0708: 1, H0591: 1, H0040: 1, H0551: 1, H0488: 1, H0623: 1, H0561: 1, S0306: 1, S0438: 1, H0647: 1, S0344: 1, H0529: 1, L0506: 1, L0763: 1, L0770: 1, L0769: 1, L0637: 1, L0761: 1, L0646: 1, L0803: 1, L0375: 1, L0651: 1,				
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							L0776: 1, L0659: 1, L0793: 1, L0666: 1, L0663: 1, L0664: 1, L0665: 1, H0144: 1, H0693: 1, H0520: 1, H0519: 1, H0682: 1, H0658: 1, H0670: 1, S0330: 1, S0380: 1, H0696: 1, S0146: 1, H0631: 1, H0345: 1, S0027: 1, L0744: 1, S0260: 1, H0445: 1, H0707: 1, L0595: 1, L0366: 1, S0011: 1, H0668: 1, H0543: 1, L0697: 1, S0398: 1, S0452: 1 and H0352: 1.			
HOPKC80	1058174	878	240 - 980	3053	Pro-1 to Ser-6, Pro-25 to Cys-31, Arg-142 to Lys-150, Pro-223 to Arg-232.		S0408: 20, L0751: 11, S0358: 8, S0442: 5, S0444: 5, L0775: 5, L0776: 5, S0440: 4, L0659: 4, L0666: 4, L0755: 4, L0596: 4, S0356: 3, S0376: 3, L0771: 3, L0768: 3, L0774: 3, L0743: 3, L0748: 3, H0550: 2, L0373: 2, L0372: 2, L0665: 2, S0374: 2, H0684: 2, H0648: 2,	17p13	138190, 254210, 271900, 600179, 600977, 601202, 601777	

HOCPT58	1058250	879	1 - 765	3054	Ala-3 to Val-8, Ser-97 to Leu-104, Asp-106 to Thr-113, Ala-124 to Ser-129, Pro-136 to Gly-152, Pro-156 to Leu-167, His-176 to His-182, Thr-188 to Ser-194, Pro-200 to Tyr-205, Arg-208 to Glu-214,	H0672: 2, S0392: 2, L0750: 2, L0752: 2, L0599: 2, H0295: 1, S0360: 1, S0410: 1, S0132: 1, H0549: 1, H0574: 1, L0021: 1, H0590: 1, H0085: 1, H0204: 1, H0150: 1, H0039: 1, H0617: 1, H0130: 1, L0764: 1, L0773: 1, L0648: 1, L0653: 1, L0657: 1, L0783: 1, L0383: 1, L0519: 1, L0791: 1, L0792: 1, L0663: 1, H0435: 1, H0659: 1, H0670: 1, H0696: 1, S0404: 1, S0406: 1, L0777: 1, L0759: 1 and S0434: 1.		
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					Arg-239 to Gly-245.	L0774: 2, H0660: 2, S0378: 2, S3014: 2, L0751: 2, L0749: 2, L0779: 2, L0758: 2, L0759: 2, H0295: 1, H0583: 1, S0212: 1, H0484: 1, H0255: 1, S0442: 1, S0358: 1, S0444: 1, S0360: 1, H0549: 1, H0333: 1, L0622: 1, H0486: 1, T0060: 1, H0427: 1, L0021: 1, H0194: 1, H0309: 1, H0546: 1, H0050: 1, L0471: 1, H0051: 1, S0388: 1, H0399: 1, H0375: 1, H0252: 1, H0428: 1, H0039: 1, H0553: 1, H0163: 1, H0616: 1, H0087: 1, H0494: 1, H0714: 1, S0438: 1, S0440: 1, H0633: 1, H0646: 1, S0144: 1, S0002: 1, S0426: 1, L0639: 1, L5566: 1, L0772: 1, L0648: 1, L0386: 1, L0650: 1, L0653: 1, L0655: 1, L0657: 1, L0659: 1,		
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HPCTP25	1058287	880	3 - 1553	3055	Ser-89 to Met-94, Val-331 to Lys-339, Leu-344 to Met-350, Glu-386 to Tyr-394, Phe-480 to Gly-493.	L0789: 1, L0793: 1, L0664: 1, H0144: 1, H0593: 1, H0682: 1, H0670: 1, H0651: 1, S0330: 1, S0152: 1, H0521: 1, S0037: 1, S0027: 1, S0206: 1, L0743: 1, L0740: 1, L0747: 1, L0756: 1, H0595: 1 and H0653: 1.	lq22-q23	104770, 107300, 107670, 110700, 131210, 134638, 136132, 145001, 146740, 146740, 146740, 146790, 159440, 159440, 159440, 173610, 176310, 186780, 191030, 191315,
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				H0717: 1, S0114: 1, H0583: 1, S0212: 1, S0282: 1, H0661: 1, S0420: 1, S0358: 1, S0444: 1, S0408: 1, H0722: 1, S0046: 1, S0476: 1, H0431: 1, H0592: 1, H0587: 1, S0414: 1, T0114: 1, S0280: 1, H0156: 1, L0021: 1, L0105: 1, H0052: 1, H0050: 1, H0024: 1, H0014: 1, S0051: 1, H0083: 1, S6028: 1, H0292: 1, S0003: 1, H0328: 1, H0428: 1, H0032: 1, H0598: 1, H0090: 1, H0591: 1, H0038: 1, H0634: 1, H0616: 1, S0038: 1, T0041: 1, T0042: 1, H0625: 1, H0561: 1, H0714: 1, S0438: 1, H0529: 1, L0769: 1, L0638: 1, L0667: 1, L0646: 1, L0764: 1, L0765: 1, L0662: 1, L0794: 1, L0649: 1, L0774: 1, L0805: 1, L0379: 1,			227400, 227400, 600923, 601412, 601652, 602491
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								L0656: 1, L0518: 1, L0783: 1, L0647: 1, L0663: 1, L0664: 1, L0665: 1, H0144: 1, L0438: 1, H0520: 1, H0547: 1, H0593: 1, H0689: 1, S0330: 1, S0004: 1, S0044: 1, H0694: 1, S0406: 1, H0478: 1, S3014: 1, S0032: 1, UNKWN: 1, L0749: 1, L0758: 1, S0031: 1, S0260: 1, L0608: 1 and H0667: 1.			
HODKM52	1058305	881	13 - 999	3056	Arg-1 to Val-6.			H0059: 6, H0370: 5, L0646: 2, L0754: 2, H0664: 1, S0376: 1, H0156: 1, H0615: 1, H0688: 1, H0030: 1, H0494: 1, L0764: 1, L0662: 1, L0664: 1, H0682: 1 and H0666: 1.			
HCONB89	1058316	882	1 - 1302	3057				8p22-p21.3	148370, 238600, 238600, 238600, 238600, 600143, 601385, 602629		

HSABJ44	1058413	883	11 - 925	3058	Gly-1 to Lys-10, Glu-29 to His-36, Gly-43 to Asn-63, Ala-74 to Leu-84, Leu-132 to Asn-142, Pro-189 to Pro-194, Asp-196 to Ser-209, Pro-252 to Gly-268, Thr-271 to Lys-278, Pro-292 to Gln-300.	L0777: 9, L0751: 8, H0046: 5, H0550: 4, L0665: 4, H0521: 4, L0750: 4, H0623: 3, H0435: 3, H0658: 3, S0436: 3, S0212: 2, H0580: 2, H0619: 2, T0039: 2, H0427: 2, H0266: 2, S0438: 2, L0772: 2, L0659: 2, L0666: 2, L0663: 2, S0374: 2, S0152: 2, H0696: 2, H0555: 2, L0749: 2, L0731: 2, L0758: 2, L0596: 2, L0599: 2, S0192: 2, H0685: 1, S0040: 1, H0717: 1, S0116: 1, H0483: 1, H0255: 1, H0661: 1, H0663: 1, S0442: 1, S0358: 1, S0360: 1, S0408: 1, H0728: 1, L0717: 1, H0586: 1, H0618: 1, H0318: 1, H0263: 1, H0544: 1, H0510: 1, H0290: 1, S0368: 1, H0424: 1, H0553: 1, H0606: 1, H0032: 1, H0316: 1, H0634: 1,	12p13	103950, 120580, 131440, 139130, 142680, 176260, 190450, 200990, 216950, 600228, 600414, 600618, 602096
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							H0551: 1, H0268: 1, H0494: 1, H0646: 1, S0426: 1, H0529: 1, L0501: 1, L0769: 1, L0646: 1, L0764: 1, L0773: 1, L0662: 1, L0649: 1, L0803: 1, L0375: 1, L0784: 1, L0776: 1, L0807: 1, L0783: 1, L0790: 1, H0693: 1, H0670: 1, H0672: 1, H0539: 1, S0350: 1, H0522: 1, S3014: 1, S0032: 1, L0748: 1, L0754: 1, L0780: 1, L0752: 1, H0595: 1, H0665: 1 and S0242: 1.			
HBPND88	1058432	884	1 - 1128	3059	Ala-2 to Gly-8, Tyr-12 to Pro-26, Gly-102 to Asn-107, Ala-113 to Asp-122, Arg-130 to Val-135, Glu-142 to Lys-150, Asn-189 to Ala-195, Ala-221 to His-228, Gln-248 to Ser-260, Ser-272 to Gly-283, Leu-321 to Glu-329, Cys-336 to Gly-344,	L0748: 15, L0599: 15, L0731: 9, L0751: 7, L0750: 6, S0360: 5, L0659: 5, L0754: 5, L0755: 5, L0601: 5, H0295: 4, L0655: 4, L0663: 4, L0664: 4, H0670: 4, L0744: 4, L0747: 4, L0757: 4, T0049: 3, S0474: 3, H0124: 3, L0763: 3, L0662: 3, L0768: 3,	10q22-q27	126090, 129010, 142600, 250850, 601386, 601493		

Ala-358 to Gly-367.	L0806: 3, L0509: 3, L0776: 3, L0809: 3, L0666: 3, L0665: 3, S0328: 3, H0445: 3, L0596: 3, S0026: 3, L0600: 3, S0358: 2, S0376: 2, S0444: 2, H0083: 2, S0210: 2, L0761: 2, L0372: 2, L0764: 2, L0774: 2, L0654: 2, L0382: 2, H0435: 2, H0648: 2, L0759: 2, H0444: 2, L0608: 2, H0685: 1, L0785: 1, H0341: 1, S0212: 1, H0255: 1, H0661: 1, H0664: 1, H0662: 1, S0418: 1, S0420: 1, S0442: 1, S0408: 1, S0410: 1, H0393: 1, H0431: 1, H0392: 1, H0331: 1, L0622: 1, T0114: 1, T0109: 1, H0427: 1, L0021: 1, T0082: 1, H0530: 1, H0546: 1, H0545: 1, S0051: 1, H0030: 1, H0031: 1, H0032: 1, H0169: 1, H0674: 1, H0212: 1,				
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H6EEO05	1058438	885	67 - 1527	3060	Arg-29 to Ser-35, Ser-79 to Gly-91, Pro-105 to Arg-120, Thr-168 to Glu-175, Phe-187 to Ala-200, Arg-272 to Lys-282,	S0364: 1, H0040: 1, H0087: 1, T0067: 1, H0412: 1, H0413: 1, H0102: 1, H0494: 1, S0440: 1, S0422: 1, L0762: 1, L0640: 1, L0770: 1, L0638: 1, L0373: 1, L0646: 1, L0771: 1, L0773: 1, L0363: 1, L0364: 1, L0381: 1, L0388: 1, L0803: 1, L0804: 1, L0775: 1, L0512: 1, L0383: 1, S0374: 1, H0691: 1, H0547: 1, H0519: 1, H0690: 1, H0658: 1, H0696: 1, S0037: 1, S0206: 1, L0745: 1, L0752: 1, L0758: 1, S0434: 1, L0592: 1, L0594: 1, L0595: 1, L0362: 1, L0603: 1, L0097: 1 and S0384: 1.	S0384: 1, L0748: 11, L0747: 9, L0749: 7, L0439: 6, L0599: 5, L0779: 4, L0757: 4, L0758: 4, L0662: 3, L0766: 3, L0774: 3, L0659: 3,	10
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Arg-325 to Asp-330,	L0751: 3, L0750: 3,				
Arg-332 to Phe-338,	S0358: 2, H0431: 2,				
Arg-358 to Lys-368,	H0622: 2, L0637: 2,				
Cys-433 to Asn-441,	L0375: 2, L0776: 2,				
Leu-456 to Asp-461,	L0666: 2, H0648: 2,				
	H0672: 2, S014: 2,				
	L0741: 2, L0740: 2,				
	L0731: 2, T0002: 1,				
	S0040: 1, S6024: 1,				
	S0116: 1, H0664: 1,				
	S0418: 1, S0360: 1,				
	S0046: 1, L0717: 1,				
	S6016: 1, H0331: 1,				
	H0632: 1, H0559: 1,				
	H0486: 1, H0013: 1,				
	S0010: 1, H0318: 1,				
	S0049: 1, H0434: 1,				
	L0041: 1, L0471: 1,				
	S0362: 1, H0051: 1,				
	S0388: 1, S6028: 1,				
	H0266: 1, H0687: 1,				
	H0615: 1, S0364: 1,				
	H0551: 1, H0272: 1,				
	S0038: 1, H0100: 1,				
	L0351: 1, H0560: 1,				
	S0438: 1, H0509: 1,				
	H0652: 1, S0142: 1,				
	S0344: 1, S0426: 1,				
	L0769: 1, L0638: 1,				
	L0667: 1, L0373: 1,				

						L0372: 1, L0764: 1, L0771: 1, L0648: 1, L0521: 1, L0363: 1, L0803: 1, L0650: 1, L0775: 1, L0788: 1, L0664: 1, H0660: 1, L0743: 1, L0753: 1, L0480: 1, L0595: 1 and S0460: 1.			
HFIVR61	1058451	886	157 - 777	3061	Pro-27 to Lys-32, Pro-37 to Ser-44, Glu-46 to Gln-51, Arg-63 to Asn-71, Gln-125 to Ala-135, Gln-150 to Asn-155.	AR096: 10, AR089: 8, AR039: 7, AR061: 7, AR053: 6, AR052: 5, AR033: 5, AR060: 3, AR104: 3, AR055: 3 S0242: 271, S0196: 77, H0551: 32, S0003: 13, H0634: 11, H0635: 10, H0250: 7, H0069: 7, L0757: 6, H0486: 5, H0623: 5, H0386: 4, S0418: 2, H0411: 2, S0214: 2, H0628: 2, L0649: 2, L0803: 2, L0789: 2, H0265: 1, H0556: 1, H0140: 1, S0040: 1, S0298: 1, H0638: 1, S0376: 1, H0637: 1, S0046: 1, H0431: 1, H0461: 1, L0021: 1, H0318: 1,	7p21	153880, 601622, 601649	

								H0123: 1, H0200: 1, H0109: 1, H0615: 1, H0111: 1, S0015: 1, L0800: 1, L0644: 1, L0766: 1, L0804: 1, L0633: 1, S0126: 1 and L0780: 1.		
HVVBX28	1058458	887	2 - 493	3062				L0748: 13, L0731: 13, L0749: 7, L0744: 6, L0438: 5, L0740: 5, L0768: 3, L0747: 3, L0758: 3, S0360: 2, L0717: 2, S0022: 2, L0638: 2, H0547: 2, L0743: 2, L0439: 2, L0754: 2, L0604: 2, H0656: 1, H0013: 1, H0427: 1, H0098: 1, S0010: 1, H0014: 1, H0687: 1, H0163: 1, H0561: 1, H0509: 1, H0652: 1, H0538: 1, L0598: 1, L0770: 1, L0769: 1, L0637: 1, L0771: 1, L0363: 1, L0381: 1, L0375: 1, L0806: 1, L0659: 1, L0789: 1, L0665: 1, H0144: 1, H0670: 1, H0672: 1, S0146: 1,	21q22.1- q22.2	147450, 176261, 253270, 601399

								H0555: 1, L0750: 1, L0756: 1, L0777: 1, L0753: 1, L0755: 1, L0757: 1, L0759: 1, L0597: 1 and S0276: 1.			
HVVB138	1058475	888	258 - 2291	3063	Pro-27 to Lys-35.			AR089: 2, AR096: 2, AR060: 1, AR053: 1, AR061: 1, AR033: 0, AR055: 0, AR104: 0, AR039: 0 S0358: 5, H0596: 2, H0059: 2, S0354: 1, H0263: 1, L0738: 1, L0639: 1, L0764: 1, L0767: 1, L0768: 1, L0659: 1, S0374: 1, H0660: 1, H0672: 1, S0380: 1 and L0731: 1.			
HUKEJ46	1058539	889	242 - 1165	3064							
HDTFT47	1058588	890	2 - 274	3065	Trp-1 to Glu-9, Thr-29 to Val-35, Arg-73 to Thr-79.			L0655: 10, L0664: 9, L0751: 8, H0521: 7, S0360: 5, H0486: 5, L0777: 4, H0657: 3, H0638: 3, H0087: 3, L0763: 3, L0743: 3, L0748: 3, L0599: 3, H0662: 2, H0637: 2, H0581: 2, H0090: 2, L0768: 2, L0651: 2, L0653: 2, L0659: 2,	6p21.3	106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261,	

[illegible]

HSSFS71	1058596	891	2 - 499	3066	Glu-42 to Leu-48, His-56 to Cys-62, Ala-107 to Pro-119.	H0555: 1, L0741: 1, L0744: 1, L0731: 1, H0595: 1 and H0543: 1. AR055: 18, AR033: 9, AR096: 5, AR104: 5, AR089: 4, AR060: 4, AR052: 2, AR039: 2, AR061: 2, AR053: 1 H0617: 22, H0424: 13, L0439: 12, H0618: 9, H0658: 9, L0751: 9, H0265: 8, L0666: 7, S0126: 7, S0046: 6, S0222: 6, H0031: 6, L0803: 6, L0731: 6, H0009: 5, L0769: 5, L0758: 5, S0420: 4, H0370: 4, L0163: 4, H0553: 4, H0135: 4, L0805: 4, L0657: 4, L0809: 4, L0779: 4, H0483: 3, H0150: 3, H0266: 3, L0663: 3, H0670: 3, L0755: 3, H0717: 2, L0415: 2, H0661: 2, S0444: 2, S0045: 2, H0549: 2, H0486: 2, H0156: 2, H0599: 2, S0049: 2, H0373: 2, T0010: 2,	14q32.3	
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		H0622: 2, L0142: 2, H0181: 2, H0412: 2, H0623: 2, L0351: 2, L0640: 2, L0800: 2, L0648: 2, L0662: 2, L0794: 2, L0789: 2, L0664: 2, L0665: 2, L0438: 2, H0689: 2, H0555: 2, S3014: 2, L0741: 2, L0743: 2, L0754: 2, L0747: 2, H0170: 1, H0685: 1, S0040: 1, H0713: 1, H0716: 1, S6024: 1, H0656: 1, S0212: 1, H0484: 1, S0418: 1, S0358: 1, S0468: 1, S0132: 1, S0476: 1, L0717: 1, L0394: 1, H0550: 1, H0441: 1, H0431: 1, H0592: 1, H0587: 1, H0427: 1, L0021: 1, H0706: 1, H0004: 1, H0253: 1, T0048: 1, H0318: 1, H0581: 1, N0011: 1, H0196: 1, H0041: 1, H0563: 1, H0566: 1, H0050: 1, L0471: 1, H0024: 1, H0014: 1,				
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HSDJH63	1058612	892	153 - 1358	3067	Thr-17 to Lys-23, Lys-93 to Arg-98.	H0051: 1, S0051: 1, H0284: 1, H0428: 1, H0182: 1, H0606: 1, H0124: 1, H0616: 1, H0087: 1, H0056: 1, H0100: 1, L0370: 1, S0208: 1, L0369: 1, L0520: 1, L0763: 1, L0770: 1, L5575: 1, L5566: 1, L0804: 1, L0775: 1, L0776: 1, L0655: 1, L0383: 1, L0352: 1, H0690: 1, H0660: 1, S0328: 1, S0330: 1, H0696: 1, H0479: 1, H0627: 1, S0037: 1, L0744: 1, L0748: 1, L0777: 1, L0759: 1, H0445: 1, S0436: 1, L0608: 1, L0601: 1, S0242: 1 and H0352: 1.		
						AR039: 28, AR053: 20, AR055: 19, AR033: 17, AR052: 16, AR089: 15, AR104: 12, AR061: 12, AR096: 11, AR060: 11 H0615: 2, L0766: 2, S0114: 1, H0650: 1,		



HAHGD24	1058622	893	2 - 1027	3068	Pro-17 to Arg-25, Ala-61 to Trp-72, Gln-96 to Pro-111, Gln-210 to Pro-215.	H0657: 1, L0791: 1, H0689: 1, S0152: 1, S0260: 1 and H0445: 1.  L0666: 3, L0657: 2, H0689: 2, H0555: 2, L0751: 2, S0001: 1, S0360: 1, H0675: 1, S0132: 1, H0549: 1, S0222: 1, H0333: 1, T0114: 1, H0599: 1, L0022: 1, H0594: 1, H0688: 1, S0364: 1, H0100: 1, H0561: 1, S0382: 1, L0637: 1, L0761: 1, L0649: 1, L0788: 1, L0789: 1, L0665: 1, H0547: 1, H0690: 1, H0658: 1, H0660: 1, H0672: 1, H0539: 1, H0696: 1, L0743: 1, L0754: 1 and L0780: 1.		
HTAEV85	1058723	894	426 - 238	3069		H0052: 20, H0264: 5, H0194: 4, T0010: 4, H0435: 4, H0436: 4, H0543: 4, S0222: 3, L0439: 3, H0069: 2, H0618: 2, H0581: 2, H0012: 2, H0617: 2, H0087: 2, S0038: 2,		

							L0438: 2, H0689: 2, L0741: 2, H0423: 2, H0422: 2, H0265: 1, S0001: 1, S0282: 1, H0619: 1, H0250: 1, H0635: 1, H0156: 1, S0049: 1, H0597: 1, H0327: 1, S0388: 1, S0051: 1, H0271: 1, S0036: 1, H0135: 1, H0063: 1, H0116: 1, H0652: 1, L0652: 1, L0517: 1, H0539: 1, H0518: 1, L0758: 1, H0445: 1, L0592: 1 and L0366: 1.		
HPMME44	1058928	895	9 - 338	3070			H0265: 1, H0050: 1, H0644: 1, S0150: 1, H0521: 1, H0542: 1 and S0424: 1.		
HEEAZ17	1058949	896	2184 - 2426	3071			L0758: 7, L0666: 5, L0749: 4, L0779: 4, H0620: 3, L0540: 3, L0439: 3, L0750: 3, L0731: 3, L0759: 3, S0360: 2, L0763: 2, L0770: 2, L0803: 2, L0775: 2, L0805: 2, L0776: 2, L0665: 2, L0743: 2, L0747: 2,		

HSPSG28	1058977	897	474 - 1679	3072	Asp-33 to Arg-39, Ala-43 to Leu-48, Glu-256 to Gln-266, Gly-305 to Ile-311, Pro-314 to Ala-320, Gln-388 to Asn-394.	L0756: 2, S0040: 1, H0662: 1, S0045: 1, H0549: 1, H0550: 1, H0370: 1, T0060: 1, L0022: 1, H0615: 1, H0135: 1, H0488: 1, H0623: 1, H0059: 1, H0022: 1, L0520: 1, L0640: 1, L0769: 1, L0772: 1, L0662: 1, L0768: 1, L0766: 1, L0804: 1, L0774: 1, L0655: 1, L0809: 1, L4501: 1, L0663: 1, L0664: 1, H0144: 1, H0547: 1, S0330: 1, H0539: 1, H0696: 1, L0744: 1, L0748: 1, L0751: 1 and L0757: 1.	I7q23-q25	106180, 114290, 138033, 138700, 139250, 150200, 154275, 162100, 170500, 170500, 170500,
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176960, 180860, 249000, 253250, 264470						

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HTGFW12	1059006	898	2 - 1450	3073	Gly-1 to Leu-6.	H0683: 1, H0435: 1, H0670: 1, H0672: 1, H0539: 1, H0710: 1, S0152: 1, S0350: 1, H0522: 1, H0576: 1, L0612: 1, L0741: 1, L0748: 1, L0756: 1, S0434: 1, L0596: 1, L0599: 1, S0011: 1, H0668: 1, H0653: 1, H0667: 1, H0136: 1, S0192: 1, S0276: 1 and H0422: 1.		
						AR060: 23, AR104: 21, AR089: 11, AR061: 8, AR096: 7, AR055: 6 L0803: 10, L0451: 8, S0250: 6, L0804: 6, L0731: 5, S0212: 4, H0431: 4, H0547: 4, L0439: 4, L0777: 4, S0360: 3, L0776: 3, L0592: 3, H0717: 2, S0116: 2, S0046: 2, H0004: 2, H0046: 2, L0471: 2, H0553: 2, H0090: 2, H0063: 2, L0638: 2, L0662: 2, L0774: 2, L0775: 2,		

	L0655: 2, L0659: 2, L0517: 2, L0809: 2, S0126: 2, S0152: 2, L0752: 2, H0170: 1, T0049: 1, S0218: 1, H0650: 1, H0661: 1, L0534: 1, L0562: 1, S0376: 1, H0619: 1, H0645: 1, H0411: 1, H0492: 1, H0069: 1, L0021: 1, H0042: 1, H0318: 1, H0581: 1, H0421: 1, H0251: 1, H0057: 1, H0266: 1, H0428: 1, H0039: 1, L0483: 1, H0031: 1, H0644: 1, H0135: 1, H0591: 1, H0040: 1, H0056: 1, S0038: 1, S0014: 1, H0560: 1, S0438: 1, H0538: 1, L0763: 1, L0769: 1, L3905: 1, L0772: 1, L0764: 1, L5574: 1, L0651: 1, L0789: 1, L0663: 1, H0144: 1, H0658: 1, H0672: 1, S0328: 1, S0406: 1, H0555: 1, S3012: 1, S0390: 1, L0748: 1,					
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HOFMT75	1059050	899	1 - 465	3074	Ala-18 to Gly-23.	L0750: 1, L0779: 1, L0780: 1, L0755: 1, L0758: 1, L0759: 1, S0260: 1, H0445: 1, S0434: 1, L0593: 1, S0192: 1, S0194: 1, H0423: 1, S0424: 1 and H0506: 1. AR039: 2, AR089: 1, AR060: 1, AR033: 1, AR096: 0, AR061: 0, AR053: 0, AR055: 0, AR104: 0 H0415: 1 and L0751: 1.	11p15.5	125852, 126452, 126452, 141900, 141900, 141900, 141900, 141900, 142000, 142000, 142200, 142250, 142270, 176730, 176730, 176730, 190020, 191290, 192500, 192500, 194071.
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								194071, 204500, 600856, 601680, 602631, 602631
HARNB17	1059085	900	241 - 501	3075	Arg-1 to Gly-6.	AR089: 7, AR053: 7, AR060: 5, AR039: 5, AR096: 5, AR104: 5, AR033: 5, AR055: 4, AR061: 2 L0439: 7, L0803: 6, L0599: 3, S0360: 2, L0794: 2, H0659: 2, L0747: 2, H0423: 2, H0662: 1, L0717: 1, H0351: 1, H0592: 1, H0085: 1, H0674: 1, H0551: 1, S0422: 1, L0761: 1, L0372: 1, L0767: 1, L0653: 1, L0776: 1, L0659: 1, H0144: 1, H0651: 1, H0436: 1, S0432: 1, L0740: 1, L0754: 1, L0779: 1, L0780: 1, L0731: 1, S0436: 1 and S0026: 1.		
HPDRG65	1059102	901	437 - 285	3076		H0658: 2		
HAOSG15	1059145	902	1 - 1776	3077		L0754: 23, L0747: 19, 2		

	H0584: 18, L0731: 17, S0372: 16, L0766: 14, L0740: 12, L0749: 12, L0752: 12, S0358: 11, L0750: 11, S0360: 9, H0013: 9, S0003: 9, H0341: 8, S0420: 8, H0038: 8, H0144: 8, L0593: 8, H0040: 7, L0665: 7, L0755: 7, L0757: 7, L0591: 7, L0608: 7, L0438: 6, L0439: 6, L0759: 6, S0026: 6, S0424: 6, H0052: 5, L0748: 5, L0751: 5, L0777: 5, L0758: 5, L0362: 5, H0543: 5, H0556: 4, H0663: 4, H0333: 4, H0545: 4, H0266: 4, H0591: 4, L0771: 4, L0774: 4, L0776: 4, L0666: 4, H0521: 4, L0745: 4, L0588: 4, L0594: 4, H0140: 3, H0686: 3, S0007: 3, S0045: 3, H0411: 3, S0222: 3, H0431: 3, H0575: 3, L0471: 3, T0003: 3, S6028: 3,				
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HHEND31	1059180	903	76 - 1827	3078	Asn-1 to Gln-6, Thr-71 to Ala-77, Cys-114 to Ser-126, Pro-147 to Tyr-156, Gly-176 to Gly-182.			AR089: 4, AR039: 3, AR033: 2, AR096: 2, AR104: 2, AR060: 2, AR053: 2, AR061: 1, AR055: 0 S0040: 1, S0114: 1, H0412: 1, S0386: 1, S0472: 1, L0649: 1, L0803: 1, S0053: 1, L0748: 1 and H0543: 1.			
HBMSN62	1059186	904	1000 - 1254	3079	Pro-6 to Lys-19.			L0754: 4, L0766: 3, L0803: 3, H0648: 3, L0758: 3, L0800: 2, L0775: 2, L0666: 2, L0747: 2, L0779: 2, S0116: 1, S0358: 1, H0574: 1, L0021: 1, L0022: 1, S0003: 1, H0615: 1, L0351: 1,			

							L0667: 1, L0764: 1, L0768: 1, L0806: 1, L0379: 1, L0659: 1, L0647: 1, L0791: 1, L0792: 1, L0663: 1, L0664: 1, L0665: 1, S0330: 1, L0748: 1, L0439: 1, L0777: 1 and L0599: 1.			
HOVCJ46	1059241	905	2 - 358	3080	Ser-38 to Gly-43, Gln-80 to Ile-93, Leu-104 to Arg-109.		L0769: 6, L0757: 5, L0777: 3, L0731: 3, H0428: 2, L0809: 2, S0404: 2, L0748: 2, L0758: 2, H0575: 1, H0251: 1, H0085: 1, H0644: 1, H0646: 1, L0773: 1, L0662: 1, L0768: 1, L0775: 1, L0782: 1, L0783: 1, L0384: 1, S0126: 1, L0747: 1, L0749: 1 and L0779: 1.			
HWLEP14	1059394	906	32 - 1348	3081	Pro-11 to Arg-21, Gly-34 to Ser-41, Pro-65 to Asn-72, Ser-80 to Gln-85, Phe-124 to Cys-129.		AR089: 2, AR053: 2, AR061: 2, AR039: 2, AR060: 2, AR096: 1, AR033: 1, AR055: 1, AR104: 1, AR052: 0 L0664: 3, S0354: 2, H0617: 2, L0509: 2, H0670: 2, L0601: 2,			

							H0170: 1, H0510: 1, H0622: 1, H0604: 1, L0662: 1, H0689: 1 and H0683: 1.			
HTFNO73	1059415	907	802 - 491	3082		Gly-1 to Asn-7, Lys-12 to Glu-20, Asn-34 to Gly-41, Val-79 to Asn-88.	AR096: 2, AR089: 1, AR055: 1, AR033: 0, AR060: 0, AR061: 0, AR052: 0, AR104: 0, AR053: 0 H0666: 15, H0622: 5, L0809: 3, L0731: 2, H0586: 1, H0032: 1, H0488: 1, L3905: 1, L0766: 1, L0803: 1, L0804: 1, L0656: 1, L0659: 1, H0648: 1, L0779: 1, L0777: 1, L0758: 1, L0759: 1, H0707: 1, S0424: 1 and H0506: 1.			
HDABR73	1059532	908	382 - 1191	3083		Ser-1 to Trp-7, Asp-47 to Ile-52, Pro-70 to Ser-80, Cys-89 to Thr-98, Ala-131 to Ser-142, Phe-169 to Cys-176, Gly-183 to Ser-193, Phe-202 to Pro-209, Arg-243 to Ala-249, Ser-256 to Lys-265.	H0494: 21, H0529: 16, L0755: 16, S0358: 15, H0435: 13, L0665: 11, L0747: 11, L0752: 11, H0521: 10, L0649: 9, S0360: 8, L0662: 8, L0659: 8, L0601: 8, S0354: 7, L0754: 7, H0663: 6, S0376: 6, S0444: 6, H0592: 6,	19q13.1	164731, 172400, 172400, 180901, 180901, 221770, 248600, 600918, 602716	



	H0586: 6, H0618: 6, H0620: 6, L0637: 6, L0646: 6, L0766: 6, L0666: 6, H0295: 5, H0661: 5, H0497: 5, L0653: 5, H0593: 5, L0758: 5, S0356: 4, H0580: 4, H0615: 4, T0023: 4, H0038: 4, H0647: 4, L0772: 4, L0768: 4, L0657: 4, S0374: 4, H0685: 3, H0483: 3, S0442: 3, H0253: 3, H0581: 3, H0604: 3, H0031: 3, H0553: 3, H0617: 3, H0488: 3, S0440: 3, H0641: 3, L0794: 3, L0664: 3, H0666: 3, S0380: 3, L0439: 3, L0750: 3, L0596: 3, H0294: 2, H0656: 2, H0664: 2, H0662: 2, H0676: 2, S0408: 2, H0370: 2, H0392: 2, H0409: 2, H0587: 2, H0046: 2, H0009: 2, H0012: 2, H0083: 2, H0688: 2, H0213: 2, H0030: 2, H0040: 2,					
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HOGAJ24	1059626	909	169 - 1698	3084	Gln-37 to Arg-58, Arg-75 to Met-87, Lys-113 to Asn-123,	H0560: 1, H0625: 1, S0466: 1, S0150: 1, S0472: 1, S0144: 1, S0002: 1, L0640: 1, L0770: 1, L0761: 1, L0372: 1, L0764: 1, L0363: 1, L0364: 1, L0774: 1, L0775: 1, L0375: 1, L0806: 1, L0805: 1, L0776: 1, L0655: 1, L0493: 1, L0636: 1, L0383: 1, L0663: 1, H0693: 1, H0520: 1, H0547: 1, S0126: 1, H0690: 1, H0682: 1, H0683: 1, H0684: 1, H0659: 1, H0648: 1, H0672: 1, S0330: 1, S0152: 1, S0350: 1, S0392: 1, S0432: 1, L0741: 1, L0751: 1, L0745: 1, L0757: 1, S0436: 1, L0592: 1, L0599: 1, L0361: 1, L0603: 1, H0423: 1, S0460: 1, S0446: 1 and L0600: 1.		
						H0435: 20, L0751: 20, H0436: 6, L0665: 5, H0052: 4, S0036: 4,		

Arg-148 to Tyr-155, Ser-158 to Gly-165, Ala-168 to Lys-178, His-215 to Ile-221, Ser-236 to Tyr-241, Ala-278 to Gly-287, Gly-294 to Asp-299, Glu-306 to Ser-313, Ser-374 to Arg-382, Ala-411 to Pro-416, Cys-423 to Arg-430, Thr-452 to Cys-462, Glu-479 to Glu-499, Gly-501 to Gly-507.	L0438: 4, H0264: 3, H0265: 2, H0261: 2, S0222: 2, T0010: 2, L0770: 2, L0764: 2, L0648: 2, H0547: 2, H0682: 2, H0672: 2, L0748: 2, L0756: 2, S0031: 2, H0423: 2, H0556: 1, H0295: 1, S0134: 1, S0282: 1, H0255: 1, H0661: 1, H0663: 1, S0356: 1, S0360: 1, H0619: 1, L0717: 1, S6014: 1, H0415: 1, H0643: 1, H0486: 1, H0156: 1, H0618: 1, S0010: 1, H0581: 1, S0049: 1, H0457: 1, H0050: 1, H0012: 1, H0320: 1, H0354: 1, H0271: 1, L0140: 1, H0063: 1, H0272: 1, H0494: 1, H0646: 1, L0761: 1, L0644: 1, L0771: 1, L0774: 1, L0788: 1, H0698: 1, H0593: 1, H0658: 1, H0648: 1, S0328: 1, S0330: 1, H0518: 1, L0744: 1,				
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								L0439: 1, L0749: 1, L0758: 1, L0759: 1 and S0260: 1.			
HTJMV05	1059692	910	2 - 685	3085				H0083: 17, H0556: 14, H0265: 7, L0794: 6, H0271: 5, H0543: 5, L0766: 4, L0809: 4, H0436: 3, H0635: 2, H0150: 2, S0114: 1, H0650: 1, H0645: 1, S0222: 1, H0438: 1, H0594: 1, H0416: 1, H0615: 1, H0033: 1, H0087: 1, H0488: 1, S0440: 1, S0142: 1, L0764: 1, L0803: 1, L0655: 1, L0657: 1, L0656: 1, L0659: 1, L0783: 1, L0790: 1, L0663: 1, L0665: 1, S0216: 1, H0670: 1, L0758: 1, H0595: 1, H0542: 1, H0423: 1 and H0422: 1.			
HOOIL70	1059710	911	134 - 1996	3086	Pro-19 to Ala-24, Pro-57 to Asp-64, Pro-125 to His-138, Ser-177 to Ala-182, Asn-257 to Ala-266, Glu-275 to Asn-284,			L0749: 6, L0761: 4, H0657: 3, S0142: 3, L0766: 3, L0655: 3, L0777: 3, L0599: 3, H0556: 2, S0358: 2, H0457: 2, L0769: 2,	12p13	103950, 120580, 131440, 139130, 142680, 176260,	

					Arg-288 to Lys-303, Pro-340 to Lys-345, Arg-378 to Cys-387, His-411 to Arg-419, Ile-462 to Ser-468, Gln-553 to Ile-565, Lys-577 to Val-589, His-594 to Lys-621.	L0794: 2, L0499: 2, L0653: 2, L0776: 2, L0659: 2, H0648: 2, H0521: 2, H0555: 2, L0747: 2, L0750: 2, H0445: 2, H0650: 1, H0656: 1, H0255: 1, S0356: 1, S0140: 1, L0717: 1, S0278: 1, S0280: 1, H0274: 1, H0050: 1, H0015: 1, H0083: 1, H0688: 1, H0606: 1, H0124: 1, T0067: 1, S0002: 1, S0426: 1, L0763: 1, L0772: 1, L0771: 1, L0784: 1, L0629: 1, L0382: 1, L0663: 1, L0665: 1, H0689: 1, H0672: 1, H0522: 1, H0436: 1, L0780: 1, L0752: 1, L0731: 1 and H0422: 1.		190450, 200990, 216950, 600228, 600414, 600618, 602096
HUNAE87	1059743	912	146 - 955	3087	Asn-1 to Asp-6, Pro-16 to Gly-22, Tyr-28 to Glu-34, Thr-44 to Val-57, Arg-96 to Pro-106, Leu-118 to His-123, Pro-125 to Ser-146,	L0748: 19, L0754: 15, H0046: 13, L0751: 10, H0013: 8, S0152: 8, H0623: 7, H0644: 6, L0662: 6, L0666: 6, L0438: 6, L0740: 6, L0747: 6, S0358: 5,	11q11	106100

					<p>Thr-151 to Gln-178, Glu-199 to Leu-210, Asp-217 to Tyr-237, Val-245 to Tyr-251.</p>	<p>S0476: 5, H0575: 5, H0622: 5, L0659: 5, L0758: 5, H0645: 4, S0440: 4, L0770: 4, L0806: 4, L0776: 4, L0439: 4, L0750: 4, L0755: 4, L0731: 4, S0442: 3, S0022: 3, H0032: 3, H0591: 3, L0769: 3, L0665: 3, H0144: 3, H0547: 3, H0539: 3, S0390: 3, S0028: 3, S0206: 3, L0759: 3, L0591: 3, H0624: 2, H0686: 2, S0212: 2, S0282: 2, H0662: 2, S0444: 2, H0637: 2, S0045: 2, H0619: 2, H0351: 2, H0586: 2, H0486: 2, H0042: 2, H0052: 2, N0006: 2, H0015: 2, H0039: 2, H0553: 2, H0135: 2, H0488: 2, H0646: 2, H0652: 2, L0369: 2, L0627: 2, L0764: 2, L0766: 2, L0774: 2, L0653: 2, L0565: 2, H0519: 2, H0593: 2, L0742: 2,</p>		
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HTPHO01	1059764	913	2 - 1081	3088	Pro-81 to Lys-89, Cys-91 to Leu-100, Asp-103 to Ile-110, Pro-179 to Pro-184, Arg-194 to Met-199, Pro-203 to Arg-213, Pro-249 to Ala-262, Ser-274 to Glu-279, Asp-301 to Trp-309, Pro-335 to Ser-343.	H0008: 1. AR096: 5, AR055: 3, AR089: 3, AR061: 3, AR053: 2, AR033: 2, AR060: 2, AR039: 1, AR104: 1, AR052: 0, H0599: 25, L0731: 19, L0750: 14, L0754: 13, L0766: 8, L0776: 8, L0752: 8, L0757: 8, L0747: 6, L0744: 5, L0769: 4, L0779: 4, L0777: 4, S0420: 3, L0770: 3, L0755: 3, L0758: 3, L0471: 2, L0771: 2, L0775: 2, L0806: 2, L0659: 2, S0126: 2, H0670: 2, L0743: 2, L0759: 2, L0604: 2, H0624: 1, H0685: 1, H0650: 1, H0484: 1, H0483: 1, H0661: 1, S0358: 1, S0360: 1, S0046: 1, H0411: 1, H0632: 1, H0427: 1, S0280: 1, H0097: 1, H0004: 1, S0049: 1, H0024: 1, H0028: 1, H0622: 1, L0142: 1, H0708: 1,	3q13.3-q21	106165, 117700, 117700, 126451, 150210, 169600, 180380, 180380, 180380, 190000, 203500, 232050, 276902, 600882, 601199, 601199, 601199, 601471, 601682
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HDPWK69	1059784	914	206 - 496	3089			S0001: 1, H0125: 1, H0580: 1, H0581: 1, H0457: 1, H0428: 1, L0627: 1, H0521: 1 and L0749: 1.		
HPCOK03	1059849	915	8 - 1267	3090	Asp-19 to Ile-26, Lys-86 to Leu-96, Pro-108 to Leu-119, Ser-121 to Gln-144, Ser-243 to Ala-251, Pro-299 to Thr-305, Asn-349 to Ser-359, Leu-381 to Pro-389, Asn-403 to Ser-420.	L0748: 19, L0758: 6, L0794: 5, L0766: 5, L0749: 4, H0038: 3, H0494: 3, L0771: 3, H0520: 3, H0288: 2, H0551: 2, L0665: 2, L0438: 2, H0547: 2, H0659: 2, L0591: 2, L0595: 2, H0177: 1, S0418: 1, S0046: 1, H0393: 1, L0717: 1, H0370: 1, T0039: 1, T0114: 1, H0318: 1,	20q13.2- q13.3	118504, 118504, 131242, 139320, 139320, 139320, 139320, 602025, 602235	

							T0110: 1, H0553: 1, H0412: 1, H0413: 1, H0623: 1, S0112: 1, T0042: 1, H0529: 1, L0369: 1, L0769: 1, L0646: 1, L0800: 1, L0805: 1, L0655: 1, L0657: 1, L0787: 1, L0789: 1, H0702: 1, H0684: 1, H0648: 1, S0152: 1, H0522: 1, H0626: 1, L0751: 1, L0747: 1, L0777: 1, L0608: 1, H0668: 1 and H0667: 1.			
HVVBPI4	1059852	916	3 - 935	3091	Pro-26 to Ser-35, Lys-46 to Arg-63, Ile-71 to Asp-76, Lys-105 to Ile-115, Glu-119 to Tyr-125, His-136 to His-141, Leu-148 to Arg-154, Thr-165 to Glu-170, Asp-194 to Gly-201, Glu-216 to Pro-222, Ser-227 to Phe-232, Arg-236 to Glu-248, Glu-271 to Lys-282, Ala-297 to Leu-311.	U0754: 10, H0251: 9, L0591: 9, S0212: 8, S0003: 7, L0771: 7, S0192: 7, L0805: 6, H0616: 5, L0776: 5, H0689: 5, L0747: 5, L0777: 5, L0757: 5, L0759: 5, H0624: 4, S0420: 4, S0360: 4, L0471: 4, H0124: 4, H0551: 4, H0413: 4, L0769: 4, L0517: 4, S0126: 4, S3014: 4, L0756: 4, L0755: 4, L0731: 4, S0045: 3,	11p13	102772, 106210, 106210, 106210, 106210, 107271, 114550, 115500, 136530, 151390, 179615, 179615, 179616, 180385, 194070,		

				H0575: 3, H0031: 3, H0068: 3, H0509: 3, L0665: 3, H0658: 3, S0406: 3, S0027: 3, L0439: 3, L0751: 3, L0745: 3, L0749: 3, L0750: 3, L0779: 3, L0753: 3, L0758: 3, H0171: 2, T0049: 2, H0663: 2, S0418: 2, S0356: 2, S0358: 2, H0632: 2, H0486: 2, L0477: 2, T0039: 2, H0013: 2, H0421: 2, H0544: 2, H0023: 2, S0022: 2, S0214: 2, H0615: 2, H0553: 2, H0032: 2, H0135: 2, H0591: 2, H0264: 2, H0412: 2, H0647: 2, L0659: 2, L0540: 2, L0783: 2, L0530: 2, L0789: 2, L0663: 2, L0664: 2, H0144: 2, S0374: 2, H0682: 2, H0435: 2, H0672: 2, S3012: 2, L0752: 2, S0434: 2, L0592: 2, L0581: 2, S0026: 2, S0194: 2, S0424: 2,			194070, 194070, 245349
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HOOJC15	1059967	917	1077 - 298	3092	L0541: 1, L0647: 1, L0788: 1, L0666: 1, L0565: 1, S0148: 1, H0520: 1, H0690: 1, H0659: 1, H0648: 1, H0651: 1, S0328: 1, S0330: 1, S0380: 1, H0710: 1, H0709: 1, H0696: 1, H0704: 1, S0146: 1, H0555: 1, H0478: 1, S0390: 1, S0028: 1, L0740: 1, L0739: 1, L0780: 1, H0444: 1, S0308: 1, H0343: 1, H0595: 1, L0605: 1, L0608: 1, L0595: 1, S0011: 1, H0653: 1 and H0506: 1.  L0747: 4, L0764: 3, H0648: 3, H0624: 2, H0673: 2, L0665: 2, L0748: 2, L0758: 2, H0171: 1, H0556: 1, H0351: 1, L0021: 1, H0318: 1, H0545: 1, H0354: 1, H0616: 1, L0763: 1, L0769: 1, L0667: 1, L0773: 1, L0766: 1, L0804: 1, L0659: 1, L0666: 1,		
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HODFG47	1059969	918	182 - 1213	3093	Gln-1 to Leu-9, Thr-21 to Phe-26, Leu-49 to Arg-62, Thr-114 to Asp-120, Arg-132 to Ser-140, Gln-148 to Trp-155, Pro-192 to Asn-198, Lys-235 to Asp-241, Tyr-256 to Trp-266, Ile-273 to Glu-283, Ser-297 to Lys-304, Val-326 to Val-331.	H0547: 1, H0519: 1, H0690: 1, H0658: 1, S0378: 1, S0146: 1, L0740: 1, L0589: 1 and S0106: 1.  S0003: 3, L0776: 2, S0040: 1, H0587: 1, S0010: 1, H0328: 1, H0615: 1, H0551: 1, T0042: 1, H0494: 1, L0657: 1, H0519: 1, S0328: 1, H0539: 1, L0758: 1, L0608: 1 and S0194: 1.			
HBIPC05	1060137	919	2 - 265	3094	Pro-19 to Glu-24, Ala-66 to Arg-71, Pro-81 to Tyr-88.	H0617: 2, H0618: 1, S0052: 1 and H0593: 1.			
HOPIJ32	1060193	920	447 - 635	3095	Lys-30 to Phe-36.	L0766: 1, H0684: 1 and H0542: 1.	7p22	600259, 600259	
HNOBN20	1060382	921	1380 - 1282	3096		H0615: 2, H0580: 1, H0024: 1, H0428: 1, L0804: 1, H0670: 1, H0651: 1 and L0756: 1.			
HOCPIX74	1060391	922	3 - 1514	3097	Gly-18 to Glu-23.	H0650: 1, H0656: 1, H0618: 1, H0290: 1, H0551: 1, H0477: 1, S0450: 1, H0547: 1,			



HTEPP27	1060415	923	12 - 605	3098	Ala-67 to Tyr-72, Glu-75 to Asn-81, Glu-176 to Lys-187.	H0684: 1, H0660: 1, H0555: 1, L0741: 1, L0751: 1 and H0543: 1.  L0766: 7, L0803: 5, L0809: 5, L0779: 5, L0756: 4, S0380: 3, L0439: 3, L0759: 3, S0442: 2, H0031: 2, H0591: 2, H0616: 2, L0789: 2, L0438: 2, L0754: 2, L0755: 2, L0731: 2, L0758: 2, H0171: 1, H0657: 1, L2250: 1, H0024: 1, H0169: 1, H0372: 1, L0769: 1, L0637: 1, L0774: 1, L0805: 1, L0776: 1, L0527: 1, L0666: 1, S0374: 1, L0352: 1, H0547: 1, H0670: 1, H0660: 1, H0648: 1, H0539: 1, H0522: 1, L0748: 1, L0752: 1, H0445: 1, H0667: 1 and H0543: 1.			
HLYAJ79	1060495	924	218 - 292	3099	Lys-10 to Ser-19.	S0388: 5, H0594: 4, S0282: 3, H0598: 3, S0344: 3, S0136: 3, H0395: 2, S0280: 2, H0597: 2, S0194: 2,	17p13.3	113721, 247200, 600059, 601545	

H0543: 2, H0510: 1, H0316: 1, S0036: 1, H0538: 1, S0260: 1, H0445: 1, H0595: 1 and S0412: 1.									
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HWMG151	1060711	926	1 - 618	3101	Tyr-23 to Arg-29, Gln-57 to Cys-65, Cys-164 to Trp-169.	H0651: 1, H0521: 1, L0744: 1, L0439: 1, L0731: 1 and L0605: 1.  L0805: 9, L0776: 8, H0585: 7, L0731: 7, L0751: 3, L0747: 3, S0282: 2, H0606: 2, H0038: 2, L0769: 2, L0803: 2, L0809: 2, H0690: 2, L0777: 2, L0752: 2, L0758: 2, L0601: 2, H0170: 1, S0358: 1, S0360: 1, S0007: 1, S0476: 1, S0278: 1, H0370: 1, H0559: 1, L0622: 1, L0623: 1, T0114: 1, H0427: 1, L0021: 1, H0204: 1, H0086: 1, H0178: 1, S0051: 1, H0688: 1, H0213: 1, H0163: 1, H0087: 1, H0494: 1, S0440: 1, L0535: 1, L3904: 1, L0764: 1, L0662: 1, L0794: 1, L0774: 1, L0375: 1, L0376: 1, L0657: 1, L0526: 1, L0783: 1, L0383: 1, L0787: 1, H0144: 1,			602475
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HDPJG33	1060780	927	555 - 863	3102	Cys-38 to Thr-45, Ser-69 to Asp-79, Leu-81 to Gly-89, Pro-97 to Leu-103.		H0208: 1, H0024: 1, H0038: 1, L0776: 1, H0658: 1, H0521: 1 and H0665: 1.			
HLYAE20	1060967	928	801 - 1259	3103	Pro-10 to Arg-15, Gly-45 to Trp-57, Gly-77 to Pro-88.					
HKZAR86	1060972	929	1 - 1302	3104	Gln-1 to Arg-14, Leu-21 to Arg-32, Cys-44 to Cys-57.		L0771: 9, H0436: 6, H0494: 4, L0761: 4, L0789: 4, L0743: 4, H0656: 3, H0581: 3, L0764: 3, H0543: 3, H0580: 2, H0427: 2, H0538: 2, L0769: 2, L0806: 2, H0699: 2, H0689: 2, H0521: 2, L0755: 2, H0583: 1, H0341: 1, H0483: 1, H0662: 1, H0550: 1, S0222: 1, H0392: 1, H0486: 1, S0250: 1, H0488: 1, S0426: 1, L0800: 1, L0662: 1, L0768: 1, L0794: 1, L0766: 1, L0803: 1,			

							L0659: 1, S0374: 1, H0547: 1, H0593: 1, S0126: 1, H0435: 1, S0152: 1, L0780: 1, L0757: 1, L0758: 1, H0423: 1 and H0422: 1.				
HAOTX62	1061036	930	65 - 298	3105							
HOCQG58	1061180	931	3034 - 251	3106			Glu-22 to Ser-36, Gly-43 to Asp-74, Leu-83 to Leu-90, Glu-97 to Thr-106, Pro-135 to Arg-140, Lys-188 to Arg-201, Asp-330 to Asp- 336, Thr-371 to Ser-381, Asp-413 to Trp-418, Tyr-454 to Lys-461, Gly-474 to Cys-479, Gly-511 to Asp-516, Glu-564 to Thr-573, Phe-640 to Ala-662, Arg-700 to Leu-706, Ala-737 to Tyr-743, Pro-800 to Gln-806, Ala-876 to Thr-881, Arg-921 to Leu-928.	H0617: 8, L0747: 8, L0769: 6, L0665: 5, L0758: 5, L0717: 4, L0794: 4, L0766: 4, L0659: 4, L0748: 4, H0181: 3, H0494: 3, L0638: 3, L0666: 3, H0658: 3, L0750: 3, L0757: 3, H0657: 2, H0255: 2, H0431: 2, H0318: 2, H0328: 2, T0006: 2, H0396: 2, S0426: 2, L0770: 2, L0771: 2, L0375: 2, L0805: 2, L0657: 2, L0384: 2, H0659: 2, L0744: 2, L0756: 2, L0779: 2, L0759: 2, L0596: 2, L0588: 2, L0599: 2, L0593: 2, S0026: 2, H0265: 1, H0685: 1, H0341: 1, H0663: 1, S0418: 1,			

				S0356: 1, S0358: 1, S0360: 1, S0132: 1, H0411: 1, H0550: 1, S0222: 1, H0441: 1, L0477: 1, L0021: 1, S0346: 1, T0048: 1, H0309: 1, H0009: 1, H0172: 1, L0483: 1, H0031: 1, H0628: 1, H0673: 1, H0674: 1, H0040: 1, H0551: 1, H0412: 1, T0004: 1, H0102: 1, L0351: 1, H0280: 1, H0560: 1, H0633: 1, S0344: 1, L0762: 1, L0501: 1, L0372: 1, L0764: 1, L0768: 1, L0803: 1, L0650: 1, L0806: 1, L0776: 1, L0656: 1, L0783: 1, L0790: 1, L2269: 1, L0565: 1, L0438: 1, H0547: 1, H0689: 1, H0435: 1, H0660: 1, H0672: 1, S0330: 1, S0406: 1, H0576: 1, L0742: 1, L0439: 1, L0740: 1, L0751: 1, L0754: 1, L0749: 1, L0752: 1,			
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HOFNH33	1061185	932	131 - 925	3107	Asp-78 to Gly-84, Glu-112 to Cys-117, Glu-202 to Val-207, Ser-219 to Ser-234, Pro-237 to Lys-252.		H0415: 2			
HAJAJQ63	1061238	933	966 - 2816	3108	Met-29 to Glu-38, Ser-40 to Ala-48.		H0436: 65, H0521: 11, S0422: 9, L0439: 9, S0360: 8, L0754: 8, L0471: 7, H0581: 6, L0521: 6, H0520: 5, H0519: 5, H0171: 4, S0358: 4, H0580: 4, S0003: 4, H0529: 4, L0520: 4, L0666: 4, L0663: 4, L0664: 4, H0144: 4, H0547: 4, H0539: 4, L0581: 4, L0362: 4, H0624: 3, H0657: 3, S0444: 3, L0717: 3, S0474: 3, S0049: 3, H0052: 3, H0428: 3, H0553: 3, H0090: 3, H0616: 3, H0413: 3, L0774: 3,			

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HVVBK70	1061258	934	650 - 1276	3109	<p>Arg-17 to Gly-46, Leu-84 to Pro-133, Glu-137 to Pro-149, Glu-179 to Gly-185, Arg-188 to Tyr-198.</p>	<p>L0773: 1, L0648: 1, L0662: 1, L0768: 1, L0794: 1, L0766: 1, L0803: 1, L0775: 1, L0378: 1, L0806: 1, L0654: 1, L0526: 1, L0519: 1, L0789: 1, L0792: 1, L0793: 1, H0699: 1, L0565: 1, L0438: 1, H0435: 1, S0406: 1, S0392: 1, H0478: 1, L0742: 1, L0740: 1, L0747: 1, L0750: 1, L0753: 1, L0731: 1, S0434: 1, S0436: 1, L0590: 1, L0592: 1, L0604: 1, L0366: 1, H0668: 1, H0653: 1, H0667: 1, H0422: 1 and S0412: 1.</p>		
						<p>L0731: 9, H0424: 6, L0754: 6, L0758: 5, L0662: 4, L0748: 4, L0747: 4, L0749: 4, L0623: 3, S0050: 3, H0038: 3, H0616: 3, L0659: 3, L0485: 3, H0685: 2, H0255: 2, H0642: 2, H0031: 2, L0657: 2, L0439: 2,</p>		

HVVBA82	1061332	935	3 - 500	3110	Arg-17 to Gln-23, Asn-63 to Gln-71.	L0779: 2, L0599: 2, L0604: 2, H0171: 1, H0657: 1, H0671: 1, S0360: 1, S0408: 1, S0045: 1, H0587: 1, H0333: 1, L0622: 1, H0486: 1, H0013: 1, H0599: 1, H0545: 1, H0594: 1, H0266: 1, H0687: 1, H0688: 1, H0213: 1, H0553: 1, H0135: 1, H0090: 1, H0059: 1, H0494: 1, H0646: 1, H0529: 1, L0763: 1, L0639: 1, L0772: 1, L0764: 1, L0375: 1, L0806: 1, L0509: 1, L0783: 1, L0532: 1, S0428: 1, H0144: 1, H0658: 1, H0672: 1, S0330: 1, S0406: 1, S0206: 1, L0756: 1, L0593: 1, L0361: 1 and H0668: 1.	22q13.1	103050, 103050, 124030, 124030, 138981, 182380,
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HWLLG38	1061388	936	99 - 692	3111	Gly-7 to Arg-14, Phe-77 to Gly-83, Ser-98 to Leu-106, Asp-114 to Tyr-120, Met-143 to Lys-156, Met-161 to Gly-167, Ala-178 to Ser-183.	H0622: 2, L0763: 2, L0776: 2, L0759: 2, S0358: 1, H0370: 1, H0486: 1, H0013: 1, H0428: 1, H0035: 1, H0591: 1, L0783: 1, H0144: 1, S0330: 1, L0439: 1 and L0756: 1.			
HTPCH84	1061466	937	1 - 978	3112	Pro-2 to Trp-11, Arg-73 to Glu-79, Pro-95 to Thr-103, Pro-106 to Phe-115, Asn-117 to Tyr-124, Thr-142 to Cys-149, Thr-177 to Pro-189,	AR052: 108, AR053: 84, AR096: 60, AR039: 52, AR061: 15, AR055: 14, AR089: 11, AR060: 8, AR033: 7, AR104: 6 H0494: 4, H0593: 3,			

					Ser-196 to Cys-208, Gly-219 to Asp-224, Pro-278 to Gly-283.		S0356: 1, S0045: 1, H0485: 1, H0486: 1, H0052: 1, H0545: 1, H0179: 1, H0039: 1 and S0148: 1.		
HWLHI68	1061521	938	139 - 471	3113	Cys-17 to Lys-31.		AR052: 8, AR053: 6, AR039: 5, AR096: 5, AR033: 3, AR089: 3, AR104: 3, AR060: 3, AR055: 3, AR061: 2 H0651: 709, L0766: 5, L0754: 5, L0756: 3, L0803: 2, L0779: 2, L0759: 2, S0354: 1, H0643: 1, H0013: 1, H0194: 1, H0545: 1, H0373: 1, H0252: 1, H0615: 1, H0316: 1, H0040: 1, H0641: 1, H0647: 1, S0422: 1, L0598: 1, L0369: 1, L0520: 1, L0762: 1, L0649: 1, L0804: 1, L0527: 1, L0656: 1, H0144: 1, H0702: 1, H0547: 1, H0555: 1, H0436: 1, S0028: 1, L0746: 1, L0750: 1, L0777: 1, L0780: 1, L0752: 1 and L0686: 1.		

HLGDA34	1061543	939	2 - 193	3114	Pro-27 to His-34.	S0428: 2, H0610: 1, H0179: 1, H0271: 1 and S0052: 1.		
HAICB08	1061629	940	3 - 338	3115	Glu-7 to Gly-12, Ala-71 to Leu-79, Ser-98 to Asp-103.	S0132: 1		
HVVAW60	1061694	941	208 - 741	3116	Pro-18 to Asn-25, Ala-44 to Asn-50, Arg-56 to Lys-64, Gly-76 to Gly-85, Lys-92 to Leu-98, Gly-116 to Gly-121, Gln-132 to His-138, Thr-159 to Asp-167.	L0794: 5, L0803: 3, L0518: 3, L0748: 3, H0556: 2, S0360: 2, S0422: 2, L0783: 2, L0809: 2, L0438: 2, L0740: 2, L0754: 2, L0747: 2, L0779: 2, L0777: 2, L0757: 2, L0588: 2, L0594: 2, H0171: 1, T0002: 1, H0657: 1, H0638: 1, S0132: 1, H0369: 1, H0441: 1, H0431: 1, H0497: 1, S0280: 1, S0010: 1, H0318: 1, H0263: 1, H0544: 1, T0003: 1, H0373: 1, H0201: 1, H0032: 1, H0673: 1, H0068: 1, H0038: 1, H0551: 1, S0426: 1, L0640: 1, L0763: 1, L0638: 1, L0662: 1, L0768: 1, L0804: 1, L0774: 1,		

HPDVB50	1061708	942	3 - 206	3117	Cys-4 to Asp-16, Lys-36 to Tyr-41, Pro-48 to Asp-68.	L0806: 1, L0805: 1, L0787: 1, H0660: 1, H0672: 1, S0328: 1, S3014: 1, L0749: 1, L0759: 1, H0445: 1, L0581: 1 and H0216: 1.	L0748: 26, L0754: 20, 4q26 L0747: 9, L0756: 8, L0777: 8, L0752: 8, L0744: 6, L0740: 6, L0757: 6, H0046: 5, H0553: 5, L0766: 5, L0803: 5, L0775: 5, L0755: 5, L0759: 5, S0418: 4, S0010: 4, L0662: 4, L0794: 4, L0774: 4, L0806: 4, L0438: 4, L0731: 4, L0758: 4, S0212: 3, S0358: 3, H0632: 3, H0635: 3, H0156: 3, H0052: 3, S0003: 3, S0152: 3, H0436: 3, S0037: 3, S0028: 3, L0750: 3, L0615: 2, H0556: 2, S0420: 2, H0619: 2, H0559: 2, H0013: 2, H0575: 2, H0421: 2, H0251: 2, H0545: 2, H0687: 2,	147680, 189800, 600919, 601542
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HAZAY40	1061765	943	3 - 1631	3118	<p>Ser-24 to Lys-55, Glu-67 to Ala-72, Leu-74 to Pro-88, Lys-104 to Tyr-119, Ile-121 to Pro-132, Ser-138 to Glu-148, Asp-158 to Pro-167, Glu-177 to Asp-203, Ser-208 to Gln-218, Pro-221 to Pro-227, Gln-229 to Pro-236, Ser-246 to Asn-254, Pro-268 to Thr-279, Arg-281 to Thr-288, Pro-295 to Asp-301, Val-305 to Val-315, Ala-318 to Asn-344, Glu-351 to Pro-366, Ala-415 to Gly-424, Val-470 to Ser-475, Leu-480 to Gly-485, Pro-511 to Cys-522.</p>	<p>H0543: 1, H0423: 1, S0424: 1, S0452: 1, S0460: 1 and S0384: 1, L0439: 10, H0013: 7, L0438: 4, L0758: 4, L0599: 3, H0171: 2, H0632: 2, S0388: 2, T0010: 2, S0250: 2, H0553: 2, H0644: 2, L0662: 2, L0754: 2, L0747: 2, L0749: 2, L0779: 2, L0777: 2, L0591: 2, S0376: 1, S0045: 1, S0222: 1, H0461: 1, L0623: 1, H0244: 1, H0427: 1, S0280: 1, H0575: 1, H0036: 1, S0346: 1, H0327: 1, H0024: 1, H0051: 1, S0051: 1, H0039: 1, T0006: 1, H0383: 1, H0316: 1, S0036: 1, H0038: 1, H0268: 1, L0351: 1, H0280: 1, H0494: 1, L0769: 1, L0637: 1, L0646: 1, L0768: 1, L0649: 1, L0650: 1, L0805: 1, L0776: 1, L0659: 1, L0783: 1,</p>		
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HACMZ51	1061766	944	61 - 1617	3119	Ala-38 to Thr-45, Ser-70 to Asp-77, Ser-85 to Asp-90, Asp-139 to Gly-145, Ile-207 to Asp-213, Arg-229 to Met-234, Gly-259 to Ser-264, Ile-281 to Ser-288, Asp-337 to Leu-343, Gln-369 to Ile-376, Gly-429 to Ser-440, Gln-448 to Val-456, Gln-461 to Thr-474.	H0144: 1, H0690: 1, H0659: 1, H0660: 1, H0648: 1, S0330: 1, H0539: 1, S0037: 1, L0731: 1, L0608: 1, L0595: 1 and L0366: 1.		
						L0777: 21, L0439: 18, H0052: 15, S0010: 12, H0013: 11, L0770: 11, L0749: 11, H0144: 10, L0748: 10, L0754: 10, L0747: 10, H0521: 9, S0222: 8, S0051: 8, S0036: 8, L0659: 8, L0740: 8, L0752: 8, L0758: 8, L0595: 8, S0278: 7, S0440: 7, L0744: 7, L0592: 7, H0457: 6, H0623: 6, L0646: 6, H0547: 6, S0152: 6, L0601: 6, H0575: 5, S0049: 5, H0046: 5, L0471: 5, H0551: 5, L0664: 5, L0665: 5, H0520: 5, S3014: 5, S0260: 5, L0599: 5, H0556: 4, S6024: 4, S0418: 4, S0354: 4, S0360: 4, S0388: 4, H0615: 4,		

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HUXAL63	1061790	945	2 - 1300	3120	Thr-6 to Leu-24, Gly-87 to Ala-92, Ser-103 to Ser-118, Asp-127 to Asn-135, Gln-141 to Phe-147, Thr-149 to Arg-159, Phe-330 to Ala-338, Pro-390 to Thr-398.	S0011: 1, S0026: 1, S0192: 1, H0423: 1 and H0352: 1.  L0794: 6, L0766: 6, L0758: 6, L0665: 4, L0439: 4, L0779: 4, H0590: 3, L0598: 3, L0763: 3, L0666: 3, H0648: 3, L0754: 3, L0362: 3, H0506: 3, H0657: 2, H0661: 2, S0438: 2, L0646: 2, L0803: 2, L0375: 2, L0806: 2, L0809: 2, L0438: 2, L0744: 2, L0740: 2, L0747: 2, L0731: 2, S0434: 2, L0589: 2, H0713: 1, S0114: 1, H0583: 1, H0255: 1, H0669: 1, H0663: 1, S0222: 1, H0497: 1, L0021: 1, L0022: 1, H0036: 1, H0052: 1, L0163: 1, H0239: 1, H0179: 1, H0615: 1, H0553: 1, H0163: 1, H0038: 1, H0100: 1, S0440: 1, S0422: 1, S0426: 1, UNKWN: 1, L5575: 1,		
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HLCIX57	1061886	946	3 - 953	3121	Lys-20 to Glu-27.	L0644: 1, L0764: 1, L0662: 1, L0651: 1, L0653: 1, L0655: 1, L0661: 1, L0657: 1, L0526: 1, L0783: 1, L0793: 1, L0664: 1, S0374: 1, H0682: 1, H0658: 1, S0328: 1, H0539: 1, S0454: 1, S0406: 1, S0028: 1, L0750: 1, L0752: 1, L0759: 1, S0260: 1, H0445: 1, L0596: 1 and L0597: 1.	14q24	107970, 115650, 182600, 602091
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HMALF63	1061935	947	318 - 1130	3122	Gly-13 to Arg-19, Glu-28 to Glu-64, Glu-81 to Asp-88, Leu-103 to Asn-109, Ile-132 to Gln-144, Glu-148 to Leu-157, Met-188 to Tyr-193, Ser-223 to Thr-230.	L0439: 48, H0013: 25, H0521: 21, S0152: 17, H0090: 13, S0010: 9, S0126: 9, H0543: 9, H0553: 8, H0591: 8, H0144: 8, S0192: 8, H0556: 7, H0038: 7, H0551: 7, H0494: 7, S0240: 7, L0740: 7, L0758: 7, S0256: 6, S0132: 6, S0474: 6, L0666: 6, L0596: 6,	2p25.2- p25.1			

L0595: 6, H0667: 6, S0414: 5, H0575: 5, H0581: 5, L0483: 5, H0641: 5, L0764: 5, L0438: 5, H0519: 5, L0751: 5, L0747: 5, L0731: 5, L0757: 5, H0661: 4, H0662: 4, S0354: 4, S0376: 4, S0046: 4, S0222: 4, H0052: 4, H0266: 4, S0214: 4, H0031: 4, H0040: 4, L0662: 4, H0520: 4, H0539: 4, H0522: 4, S0206: 4, L0748: 4, L0754: 4, H0542: 4, S0134: 3, H0657: 3, S0358: 3, H0580: 3, H0586: 3, H0009: 3, H0050: 3, L0471: 3, H0201: 3, H0039: 3, H0644: 3, H0032: 3, H0598: 3, H0616: 3, S0142: 3, S0344: 3, L0773: 3, L0794: 3, L0649: 3, L0659: 3, L0663: 3, H0435: 3, H0658: 3, H0660: 3, S0330: 3, S0270: 3, L0752: 3,					
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HACMR36	1062057	948	1 - 1515	3123	Gly-20 to Gly-25, Leu-47 to Pro-56, Gly-63 to Glu-68, Glu-87 to Ala-99.	L0761: 1, L0667: 1, L0772: 1, L0372: 1, L0646: 1, L0521: 1, L0768: 1, L0774: 1, L0375: 1, L0651: 1, L0805: 1, L0776: 1, L0655: 1, L0657: 1, L0526: 1, L0664: 1, S0428: 1, S0374: 1, L0352: 1, H0689: 1, H0690: 1, H0682: 1, H0683: 1, H0414: 1, H0659: 1, H0670: 1, H0672: 1, H0651: 1, S0328: 1, S0378: 1, S0380: 1, H0134: 1, H0555: 1, H0436: 1, H0478: 1, H0627: 1, S0037: 1, S3014: 1, S0027: 1, S0028: 1, L0759: 1, L0684: 1, H0668: 1, H0665: 1, H0136: 1 and H0677: 1.		
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						H0427: 1, H0622: 1, L0640: 1, L0763: 1, L0637: 1, L5565: 1, L0373: 1, L0641: 1, L0648: 1, L0364: 1, L0766: 1, L0663: 1, L0665: 1, H0690: 1, L0748: 1, L0779: 1, L0599: 1 and L0595: 1.			
HAOSM08	1062079	949	80 - 2338	3124		L0794: 13, L0803: 9, 5 H0013: 7, L0438: 6, L0758: 6, T0010: 5, L0439: 5, L0591: 5, H0413: 4, H0144: 4, L0742: 4, L0751: 4, L0731: 4, S0007: 3, H0038: 3, H0494: 3, L0755: 3, L0601: 3, H0170: 2, H0686: 2, S0418: 2, S0408: 2, S0046: 2, H0619: 2, H0050: 2, S6028: 2, H0268: 2, L0598: 2, L0770: 2, L0800: 2, L0764: 2, L0659: 2, L0666: 2, L0663: 2, L0665: 2, H0547: 2, H0658: 2, S0152: 2, L0741: 2, L0754: 2, L0747: 2, L0750: 2,			



L0779: 2, L0752: 2, L0759: 2, L0588: 2, L0592: 2, L0411: 1, H0624: 1, S0001: 1, S0420: 1, H0329: 1, S0045: 1, S0132: 1, S6026: 1, H0437: 1, H0592: 1, L0021: 1, H0575: 1, S0010: 1, H0318: 1, H0251: 1, T0115: 1, H0046: 1, H0569: 1, H0014: 1, H0373: 1, H0266: 1, S0250: 1, H0328: 1, H0622: 1, H0032: 1, H0616: 1, H0412: 1, H0056: 1, H0623: 1, S0386: 1, H0100: 1, L0351: 1, L0564: 1, H0509: 1, L4747: 1, L0644: 1, L0804: 1, L0775: 1, L0375: 1, L0776: 1, L0809: 1, L0790: 1, L0532: 1, H0520: 1, H0670: 1, S0146: 1, H0555: 1, S0028: 1, L0748: 1, L0740: 1, L0777: 1, L0753: 1, L0757: 1, H0445: 1, L0605: 1,
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HTEFM89	1062084	950	380 - 1234	3125	Ala-18 to His-32, Tyr-51 to Phe-56, Asn-100 to Arg-106, His-140 to Gly-153, Ser-167 to Gly-193, Ser-205 to Asp-214, Trp-237 to Thr-244, Asp-268 to Gln-274.	S0242: 1 and S0276: 1, H0038: 4, L0758: 2, S0040: 1, H0125: 1, S0420: 1, H0622: 1, H0634: 1, H0616: 1, H0623: 1, T0042: 1 and H0560: 1.		
HCHAK72	1062123	951	2 - 1183	3126	Pro-18 to Thr-25, Ser-36 to Tyr-45, Met-68 to Tyr-77, Gly-148 to Ser-154, Ser-234 to Gly-242, Asn-267 to Asp- 274, Cys-337 to Gly-342, Met-388 to Thr-394.	AR039: 25, AR089: 23, AR096: 18, AR053: 16, AR060: 15, AR033: 14, AR055: 10, AR104: 9, AR061: 7 L0766: 3, S0356: 2, S0222: 2, H0266: 2, H0616: 2, S0422: 2, L0794: 2, L0655: 2, L0664: 2, H0672: 2, L0777: 2, L0731: 2, H0422: 2, H0171: 1, H0657: 1, S0116: 1, H0341: 1, H0483: 1, H0449: 1, S0376: 1, S0045: 1, H0587: 1, H0497: 1, H0421: 1, H0327: 1, H0057: 1, H0014: 1, H0375: 1, S6028: 1, S0003: 1, S0214: 1, H0328: 1,		

HPAME12	1062139	952	2 - 1654	3127	<p>Phe-16 to Arg-24, Pro-31 to Thr-41, Leu-50 to Gly-63, Leu-132 to Asp-138, Gln-152 to Val-160, Gln-178 to Lys-188, Leu-196 to Glu-205, Pro-207 to Lys-213, Gly-221 to Ala-228, Glu-239 to Phe-245, Asp-257 to Ser-264, Ala-301 to Tyr-306, Phe-327 to Trp-334, Lys-371 to Lys-384, Glu-419 to Ala-426, Ile-447 to Phe-454, Val-475 to Thr-483,</p>	<p>H0644: 1, H0032: 1, H0090: 1, H0038: 1, H0087: 1, H0264: 1, H0268: 1, H0529: 1, L0762: 1, L0638: 1, L0771: 1, L0521: 1, L0803: 1, L0657: 1, L0659: 1, L0783: 1, L0666: 1, L0665: 1, H0658: 1, H0521: 1, S0176: 1, S0406: 1, L0439: 1, L0779: 1 and L0758: 1.</p>	<p>H0422: 4, S0222: 3, L0775: 3, L0754: 3, H0171: 2, H0013: 2, H0635: 2, H0024: 2, L0493: 2, L0518: 2, L0438: 2, H0522: 2, L0740: 2, L0756: 2, L0755: 2, L0731: 2, L0757: 2, S0260: 2, H0170: 1, S0402: 1, S0376: 1, H0580: 1, H0574: 1, H0486: 1, L0021: 1, H0098: 1, H0036: 1, H0545: 1, S0048: 1, H0622: 1, H0031: 1, H0644: 1, H0032: 1, H0598: 1,</p>	10	
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HCE4F10	1062309	954	977 - 3	3129	Glu-27 to Thr-34, His-253 to Tyr-281, Glu-290 to Asp-295.	H0649: 1, S0208: 1, H0529: 1, L0770: 1, L0637: 1, L0772: 1, L0372: 1, L0800: 1, L0374: 1, L0662: 1, L0649: 1, L0388: 1, L0774: 1, L0775: 1, L0375: 1, L0653: 1, L0628: 1, L0513: 1, L0526: 1, L0518: 1, L0382: 1, L0663: 1, L0664: 1, L0565: 1, L0438: 1, H0547: 1, H0690: 1, H0435: 1, H0660: 1, H0666: 1, S0330: 1, S0044: 1, S0406: 1, H0436: 1, H0479: 1, S0037: 1, S0206: 1, L0747: 1, L0780: 1, L0753: 1, L0757: 1, L0759: 1, H0445: 1, H0707: 1, L0485: 1, L0608: 1, L0595: 1, H0667: 1, L0097: 1, S0196: 1 and S0446: 1.		
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HBCBE63	1062328	955	32 - 790	3130	Ser-4 to Gln-21, His-33 to Pro-38, Arg-80 to Ser-87, Lys-133 to Tyr-139, Gln-162 to Phe-168, Ala-173 to Lys-179, Glu-198 to Glu-204, Ala-212 to Asn-218, Ser-238 to Arg-245.		S0358: 1, H0370: 1, H0270: 1, H0122: 1, H0253: 1, H0545: 1, H0046: 1, H0015: 1, L0669: 1, H0617: 1, H0032: 1, H0038: 1, H0616: 1, H0658: 1, S0436: 1 and L0596: 1.			
HSSJO19	1062346	956	409 - 248	3131	Arg-1 to Pro-12, Leu-29 to Gln-41.		L0439: 5, L0764: 2, H0660: 2, L0749: 2, S0031: 2, L0591: 2, H0486: 1, L0471: 1, H0424: 1, H0135: 1, L0763: 1, L0769: 1, L0639: 1, L0771: 1, L0375: 1, L0784: 1, L0776: 1, H0478: 1 and L0747: 1.			
HE8NQ23	1062369	957	574 - 1419	3132			AR060: 2, AR061: 2, AR055: 1, AR096: 1, AR033: 1, AR039: 1,			



							AR089: 0, AR104: 0, AR053: 0 L0665: 12, L0666: 5, L0794: 4, L0664: 4, L0759: 4, H0574: 3, L0657: 3, H0031: 2, H0553: 2, H0624: 1, H0632: 1, H0013: 1, H0328: 1, L0598: 1, L0369: 1, L0645: 1, L0662: 1, H0144: 1, H0660: 1 and S0406: 1.		
HTELJ95	1062431	958	95 - 949	3133	Ala-24 to Glu-29, Glu-91 to Arg-110, Arg-115 to Trp-124, Ser-126 to Asp-140, Tyr-156 to Phe-161, Lys-209 to Asp-215, Gly-224 to Thr-230, Pro-254 to Phe-261, Thr-266 to Asp-285.	L0766: 5, L0748: 5, L0362: 4, L0755: 3, H0170: 2, H0265: 2, H0328: 2, H0494: 2, L0776: 2, L0747: 2, L0750: 2, L0731: 2, L0758: 2, H0650: 1, H0657: 1, S0001: 1, H0638: 1, S0418: 1, H0329: 1, S0007: 1, L0717: 1, T0039: 1, L0021: 1, H0097: 1, H0544: 1, L0163: 1, S0388: 1, S0051: 1, H0266: 1, S0003: 1, S0214: 1, H0615: 1, H0616: 1, H0269: 1, H0623: 1, T0041: 1,			

							T0042: 1, H0538: 1, S0422: 1, L0763: 1, L0794: 1, L0803: 1, L0375: 1, H0144: 1, H0659: 1, S0330: 1, L0756: 1, L0780: 1, L0752: 1, L0588: 1, L0592: 1, H0668: 1, H0422: 1, L0697: 1 and S0384: 1.		
HTPCP50	1062435	959	3 - 2138	3134		Pro-9 to Lys-24, Ser-39 to Lys-46, Asp-80 to Asn-86, Gln-89 to Ser-103, Phe-112 to Thr-123, Gln-260 to Ser-272, Asp-283 to His-289, Pro-341 to Glu-351, Met-362 to Thr-368, Arg-382 to Arg-389, Asn-396 to Gly-410, Tyr-415 to His-427, Ile-477 to Lys-486, Tyr-575 to Thr-580, Lys-692 to Leu-700.	AR096: 4, AR055: 4, AR053: 3, AR089: 2, AR033: 2, AR052: 2, AR061: 2, AR060: 2, AR104: 2, AR039: 1 L0747: 5, H0623: 4, S0212: 3, S0045: 3, H0586: 3, H0427: 3, S0028: 3, L0439: 3, L0749: 3, L0599: 3, L0415: 2, S0046: 2, H0553: 2, H0412: 2, L0662: 2, L0659: 2, S0146: 2, H0713: 1, H0716: 1, T0049: 1, H0662: 1, S0356: 1, H0722: 1, H0486: 1, S0280: 1, H0575: 1, H0024: 1, H0375: 1, H0266: 1, H0428: 1,		

HKGBU67	1062496	960	779 - 201	3135	Gly-1 to His-6, Thr-55 to Gln-61, Cys-63 to Asp-70, Gly-132 to Gly-137, Lys-146 to Gly-152, Pro-174 to Lys-182.			H0039: 1, T0006: 1, H0032: 1, H0090: 1, H0268: 1, H0413: 1, H0509: 1, L0375: 1, L0789: 1, L0666: 1, S0126: 1, H0670: 1, H0539: 1, H0521: 1, S0032: 1, L0754: 1, L0779: 1, L0759: 1, H0444: 1 and S0434: 1.		
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HFKIT82	1062544	961	2 - 1663	3136	Pro-10 to Val-15, Ala-42 to Lys-48, Asn-99 to Glu-104, Ile-114 to Gln-119, Asp-130 to Gly-137, Leu-167 to Tyr-175, Pro-187 to Glu-192, Arg-219 to Pro-224, Ala-233 to Thr-240.		AR039: 4, AR089: 3, AR055: 3, AR096: 3, AR060: 2, AR053: 2, AR104: 2, AR061: 1, AR033: 1 L0439: 6, H0620: 4, L0758: 2, S0040: 1, H0661: 1, H0619: 1, H0549: 1, H0587: 1, H0013: 1, L0021: 1, H0230: 1, H0373: 1, H0135: 1, L0770: 1, L0769: 1, L0776: 1, L0659: 1, L0783: 1, H0144: 1, H0519: 1, H0593: 1, H0682: 1, H0659: 1, L0751: 1, L0753: 1 and L0759: 1.		
HE2LW42	1062574	962	1300 - 1079	3137			H0624: 5, L0748: 4, S0222: 3, H0441: 2, H0013: 2, H0144: 2, L0745: 2, H0170: 1, H0171: 1, S0007: 1,		

HOGCE44	1062586	963	141 - 2561	3138	Glu-46 to Ser-59, Asn-85 to Ser-98.	H0156: 1, L0471: 1, H0051: 1, H0604: 1, H0135: 1, S0386: 1, L0521: 1, L0776: 1 and L0754: 1.	20p13	192340, 234200
						L0743: 7, L0731: 7, H0024: 5, H0264: 5, H0547: 5, L0439: 5, L0756: 5, L0764: 4, L0777: 4, L0752: 4, H0622: 3, H0163: 3, S0386: 3, H0529: 3, L0769: 3, L0809: 3, H0144: 3, H0435: 3, L0748: 3, L0747: 3, S0412: 3, S0040: 2, S0116: 2, H0341: 2, S0358: 2, S0444: 2, S0360: 2, H0549: 2, H0013: 2, H0036: 2, S0010: 2, H0318: 2, S0474: 2, H0050: 2, H0083: 2, H0266: 2, H0615: 2, T0006: 2, H0031: 2, H0644: 2, H0135: 2, S0002: 2, L0770: 2, L0771: 2, L0649: 2, L0803: 2, L0776: 2, L0438: 2, H0520: 2, H0539: 2,		

	H0518: 2, S0404: 2, S3014: 2, S0028: 2, L0741: 2, L0751: 2, L0750: 2, S0434: 2, L0605: 2, L0591: 2, L0362: 2, H0624: 1, H0171: 1, H0265: 1, S6024: 1, S0134: 1, H0583: 1, L0414: 1, S0282: 1, H0402: 1, S0356: 1, S0442: 1, S0376: 1, S0132: 1, H0619: 1, L0717: 1, H0437: 1, H0550: 1, H0600: 1, H0587: 1, H0486: 1, T0114: 1, H0635: 1, S0280: 1, H0042: 1, H0575: 1, H0590: 1, T0048: 1, H0581: 1, H0052: 1, H0596: 1, H0009: 1, L0471: 1, T0010: 1, S6028: 1, H0188: 1, H0428: 1, L0483: 1, H0553: 1, H0032: 1, H0674: 1, H0124: 1, S0036: 1, H0090: 1, H0591: 1, H0038: 1, H0616: 1, H0551: 1, H0268: 1, H0623: 1,	
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HOVJJ72	1062626	964	547 - 1782	3139	His-30 to His-35.	H0100: 1, H0560: 1, S0142: 1, H0538: 1, S0422: 1, S0426: 1, L0762: 1, L0763: 1, L0638: 1, L0761: 1, L0772: 1, L0768: 1, L0794: 1, L0766: 1, L0775: 1, L0375: 1, L0655: 1, L0783: 1, L0519: 1, L0789: 1, L0791: 1, L0666: 1, L0664: 1, S0374: 1, S0126: 1, H0689: 1, H0659: 1, H0521: 1, S0176: 1, S0406: 1, H0436: 1, L0759: 1, S0031: 1, S0260: 1, S0436: 1, L0608: 1, S0011: 1, S0242: 1, S0194: 1, S0276: 1, H0542: 1 and S0460: 1.	19q13.1- q13.2	107741, 113900, 122720, 122720, 126340, 126391, 160900, 164731, 172400,
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								H0428: 1, H0163: 1, H0646: 1, L0770: 1, L0769: 1, L0637: 1, L0772: 1, L0774: 1, L0378: 1, L0806: 1, L0663: 1, S0330: 1, H0539: 1, S0190: 1, H0540: 1, L0744: 1, L0748: 1, L0747: 1, L0779: 1, L0780: 1, L0731: 1, S0276: 1 and S0424: 1.		172400, 173850, 180901, 180901, 207750, 221770, 248600, 258501, 600918, 602716
HODBT14	1062628	965	3 - 326	3140	Gln-1 to Glu-8, Ser-17 to Asn-23, Glu-48 to Leu-54, Asn-78 to Ser-83.			H0328: 2 and H0581: 1.		
HBOEB83	1062629	966	1 - 1392	3141	Ala-1 to Ser-6, Thr-16 to Gln-23, Pro-28 to Asn-34, Glu-43 to Cys-49, Asp-95 to Gly-100.			H0328: 9, L0659: 7, L0662: 6, H0135: 4, L0750: 4, S0360: 3, H0329: 3, H0373: 3, L0375: 3, L0744: 3, H0392: 2, H0046: 2, S0364: 2, H0163: 2, H0100: 2, L0743: 2, S0356: 1, S0222: 1, H0486: 1, H0618: 1, H0439: 1, L0471: 1, S0362: 1, H0038: 1, L0520: 1, L0769: 1, L0637: 1, L0650: 1,	5q13	126060, 143200, 143200, 181510, 253200, 268800, 268800, 600354, 600354, 600354



HODCT96	1062631	967	2 - 541	3142	Lys-1 to Glu-7, Thr-20 to Glu-35, Ser-54 to Glu-62.	<p>L0789: 1, L0664: 1, H0144: 1, H0690: 1, H0660: 1, S0028: 1, L0740: 1, L0759: 1, L0589: 1, S0242: 1 and H0352: 1.</p> <p>AR039: 26, AR033: 17, AR104: 17, AR052: 15, AR053: 15, AR096: 14, AR060: 14, AR089: 13, AR055: 12, AR061: 7</p> <p>H0617: 8, L0747: 8, L0769: 6, L0665: 5, L0758: 5, L0717: 4, L0794: 4, L0766: 4, L0659: 4, L0748: 4, H0181: 3, H0494: 3, L0638: 3, L0666: 3, H0658: 3, L0750: 3, L0757: 3, H0657: 2, H0255: 2, H0431: 2, H0318: 2, H0328: 2, T0006: 2, H0396: 2, S0426: 2, L0770: 2, L0771: 2, L0375: 2, L0805: 2, L0657: 2, L0384: 2, H0659: 2, L0744: 2, L0756: 2, L0779: 2, L0759: 2,</p>		
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L0596: 2, L0588: 2, L0599: 2, L0593: 2, S0026: 2, H0265: 1, H0685: 1, H0341: 1, H0663: 1, S0418: 1, S0356: 1, S0358: 1, S0360: 1, S0132: 1, H0411: 1, H0550: 1, S0222: 1, H0441: 1, L0477: 1, L0021: 1, S0346: 1, T0048: 1, H0309: 1, H0009: 1, H0172: 1, L0483: 1, H0031: 1, H0628: 1, H0673: 1, H0674: 1, H0040: 1, H0551: 1, H0412: 1, T0004: 1, H0102: 1, L0351: 1, H0280: 1, H0560: 1, H0633: 1, S0344: 1, L0762: 1, L0501: 1, L0372: 1, L0764: 1, L0768: 1, L0803: 1, L0650: 1, L0806: 1, L0776: 1, L0656: 1, L0783: 1, L0790: 1, L2269: 1, L0565: 1, L0438: 1, H0547: 1, H0689: 1, H0435: 1, H0660: 1, H0672: 1,
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							S0330: 1, S0406: 1, H0576: 1, L0742: 1, L0439: 1, L0740: 1, L0751: 1, L0754: 1, L0749: 1, L0752: 1, L0755: 1, L0731: 1, S0031: 1, H0445: 1, L0587: 1, L0592: 1, L0485: 1, L0595: 1, L0601: 1, H0668: 1, S0192: 1 and S0194: 1.		
HTXJE60	1062655	968	60 - 1124	3143	Asp-32 to Leu-43, Leu-47 to Arg-53, Glu-95 to Phe-102, Leu-123 to Val-130, Leu-146 to Gly-154, Asp-186 to Glu-192, Glu-246 to Ser-255, Asp-296 to Arg-302, Ser-334 to Ala-347.		S0360: 2, H0266: 2, S0330: 2, L0748: 2, H0556: 1, S0442: 1, S0358: 1, S0046: 1, L0471: 1, H0024: 1, H0634: 1, H0494: 1, H0560: 1, L0800: 1, L0803: 1, H0593: 1, H0435: 1, H0651: 1, H0521: 1, H0522: 1, S0406: 1, L0747: 1 and S0452: 1.		
HUSIQ62	1062679	969	83 - 814	3144	Thr-1 to Glu-10, Arg-20 to Leu-26, Gly-37 to Ser-49, Cys-58 to Ser-69, Lys-79 to Lys-85, Ser-88 to Glu-96, Ala-99 to Ser-135,		S0422: 8, H0710: 8, S0116: 7, L0471: 7, H0542: 7, H0580: 6, T0042: 6, H0547: 6, H0659: 6, L0748: 6, H0486: 5, H0543: 5, H0656: 4, H0341: 4,	4q31	107250, 181600, 189800, 266300

					Ser-142 to Glu-151, Ser-169 to Lys-192, Ala-199 to Glu-244.	S0360: 4, S0440: 4, S0406: 4, L0747: 4, S0444: 3, H0318: 3, H0581: 3, H0428: 3, H0551: 3, L0667: 3, L0662: 3, L0766: 3, L0655: 3, L0666: 3, L0749: 3, L0758: 3, L0362: 3, H0668: 3, T0002: 2, H0650: 2, H0662: 2, H0393: 2, H0497: 2, H0013: 2, H0266: 2, H0412: 2, S0150: 2, H0529: 2, L0646: 2, L0375: 2, L0606: 2, H0144: 2, H0698: 2, H0521: 2, L0740: 2, L0750: 2, L0588: 2, L0605: 2, L0608: 2, S0192: 2, H0170: 1, L0615: 1, H0686: 1, H0685: 1, S0040: 1, H0663: 1, H0402: 1, H0449: 1, H0459: 1, S0418: 1, S0420: 1, S0358: 1, S0376: 1, H0369: 1, H0069: 1, L0021: 1, T0082: 1, H0421: 1, H0744: 1, H0251: 1,		
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							S0434: 1, L0591: 1 and S0026: 1.			
HPCTC48	1062686	970	206 - 361	3145	Arg-1 to Gly-14, Glu-24 to Ile-34, Glu-40 to Phe-52.		H0659: 1 and L0758: 1.			
HKBAK29	1062718	971	945 - 1562	3146	Glu-16 to Ser-23, Tyr-32 to Ala-44, Leu-56 to Ala-70, Ser-85 to Thr-91, Glu-102 to Lys-108, Glu-116 to Leu-122, Leu-136 to Leu-150, Glu-165 to Leu-170, Val-183 to Asp-191.		AR096: 7, AR104: 7, AR089: 5, AR033: 4, AR060: 4, AR053: 2, AR061: 1, AR055: 0, AR039: 0 S0358: 6, L0659: 6, L0805: 3, L0655: 3, L0665: 3, H0670: 3, L0755: 3, S0026: 3, S0360: 2, S0003: 2, L0649: 2, L0774: 2, L0776: 2, L0666: 2, L0663: 2, L0777: 2, L0758: 2, H0624: 1, H0170: 1, T0002: 1, H0656: 1, H0638: 1, H0637: 1, L0717: 1, S0278: 1, S0222: 1, H0497: 1, H0642: 1, H0574: 1, H0632: 1, H0486: 1, H0156: 1, L0021: 1, H0036: 1, H0251: 1, H0046: 1, L0157: 1, L0471: 1, H0083: 1, S0214: 1,			

							H0039: 1, H0644: 1, H0165: 1, H0674: 1, H0090: 1, H0040: 1, H0412: 1, H0413: 1, H0625: 1, H0529: 1, L0646: 1, L0768: 1, L0766: 1, L0803: 1, L0775: 1, L0784: 1, L0634: 1, L0783: 1, H0520: 1, S0126: 1, H0689: 1, H0683: 1, H0666: 1, H0648: 1, H0539: 1, H0521: 1, S0044: 1, S3014: 1, L0744: 1, L0756: 1, L0752: 1, L0757: 1, L0592: 1, L0485: 1, H0423: 1, H0422: 1 and H0506: 1.		
HPMCX26	1062743	972	329 - 682	3147	Ser-12 to Trp-23, Tyr-25 to Tyr-32, Pro-34 to Phe-41.		L0599: 2, H0271: 1, H0031: 1 and H0623: 1.		
HFKHF51	1062785	973	3 - 1910	3148			L0747: 4, H0620: 3, S0051: 3, H0424: 3, L0749: 3, L0756: 3, L0755: 3, H0295: 2, S0300: 2, H0333: 2, H0024: 2, H0100: 2, L0794: 2, L0774: 2, H0672: 2, L0744: 2,		

							L0754: 2, L0777: 2, L0731: 2, L0759: 2, S0412: 2, S0420: 1, S0222: 1, S0005: 1, S0049: 1, H0320: 1, S0250: 1, H0213: 1, H0417: 1, H0068: 1, L0564: 1, H0494: 1, L0771: 1, L0803: 1, L0775: 1, L0382: 1, L0809: 1, L0367: 1, L0787: 1, L0791: 1, L0793: 1, S0126: 1, H0690: 1, S0380: 1, L0612: 1, S3014: 1, L0779: 1, L0757: 1, S0260: 1, L0592: 1 and L0603: 1.			
HUCPE28	1062795	974	71 - 1090	3149	Lys-16 to Gly-23, Glu-33 to Val-43, Ser-55 to Ala-67, Gln-82 to Pro-97, Thr-108 to Gln-124, Pro-151 to Glu-157, Leu-184 to Cys-194, Ala-218 to Pro-225, Pro-227 to Asp-243, Lys-304 to Ser-324.	AR096: 1, AR055: 1, AR089: 1, AR061: 0, AR060: 0, AR033: 0, AR052: 0, AR104: 0 L0766: 11, H0622: 5, H0716: 2, S0420: 2, L0769: 2, L0803: 2, L0779: 2, H0656: 1, H0484: 1, S0418: 1, S0444: 1, H0580: 1, H0730: 1, H0619: 1, H0411: 1, H0592: 1,				



									H0427: 1, H0581: 1, H0052: 1, H0494: 1, L0774: 1, L0775: 1, L4501: 1, L0665: 1, S0374: 1, H0539: 1, S0404: 1, L0743: 1, L0745: 1, L0749: 1, L0777: 1, L0752: 1, S0436: 1 and L0097: 1.				
HPWAH30	1062840	975	1 - 708	3150	Phe-12 to Thr-19, Thr-26 to Cys-36, Thr-45 to Lys-50, Thr-54 to Gly-65, His-81 to Lys-88, Thr-110 to Lys-116, Phe-124 to Thr-131, Thr-138 to Lys-144, Ser-156 to Thr-162, His-165 to Lys-172, Asn-181 to Thr-187, Thr-194 to Lys-200, Thr-222 to Glu-230.				L0361: 2, H0170: 1, H0341: 1, H0663: 1, S0358: 1, S0045: 1, H0392: 1, H0586: 1, H0488: 1, H0509: 1, L0763: 1, L0665: 1, S0044: 1, L0779: 1 and L0593: 1.				
H6EDQ51	H6EDQ51R	976	91 - 303	3151									
HA5AU29	HA5AU29R	977	2 - 190	3152	Arg-1 to Cys-10.								
HACBX26	HACBX26R	978	2 - 124	3153									
HACMD23	HACMD23R	979	1 - 81	3154									
HACMF32	HACMF32R	980	52 - 342	3155									
HACMH54	HACMH54R	981	2 - 199	3156									
HACMH72	HACMH72R	982	2 - 478	3157						H0713: 5, H0684: 2,			

							H0685: 1, H0689: 1 and H0683: 1.			
HACMM26	HACMM26R	983	1 - 84	3158			H0685: 2, S0422: 1, L0766: 1 and L0526: 1.			
HACMM56	HACMM56R	984	221 - 451	3159						
HACMS55	HACMS55R	985	3 - 116	3160		Ser-9 to Phe-14.				
HACMX77	HACMX77R	986	3 - 419	3161		Glu-113 to Gly-118.	L0747: 25, S0358: 11, L0755: 9, L0740: 7, L0758: 7, L0775: 6, H0659: 6, L0742: 6, H0545: 5, S0406: 5, L0750: 5, L0756: 5, L0757: 5, L0362: 5, S0026: 5, H0580: 4, S0007: 4, H0413: 4, H0494: 4, S0440: 4, L0520: 4, L0769: 4, L0731: 4, H0543: 4, H0295: 3, H0341: 3, S0444: 3, H0581: 3, H0529: 3, L0770: 3, L0766: 3, L0382: 3, H0436: 3, L0744: 3, L0361: 3, H0686: 2, S0134: 2, S0218: 2, H0419: 2, H0484: 2, S0442: 2, S0360: 2, S0045: 2, H0486: 2, H0427: 2, L0021: 2, H0594: 2, T0023: 2,			

	H0063: 2, H0551: 2, H0560: 2, L0761: 2, L0773: 2, L0648: 2, L0521: 2, L0768: 2, L0653: 2, L0654: 2, L0776: 2, L0526: 2, S0374: 2, H0689: 2, H0670: 2, S0028: 2, S0206: 2, L0748: 2, L0439: 2, L0751: 2, L0754: 2, L0749: 2, L0752: 2, L0759: 2, H0445: 2, L0595: 2, H0171: 1, H0265: 1, H0685: 1, H0294: 1, H0657: 1, S0116: 1, S0212: 1, S0001: 1, H0192: 1, S0376: 1, H0676: 1, S0408: 1, H0431: 1, H0370: 1, H0392: 1, H0600: 1, H0586: 1, H0587: 1, H0643: 1, H0331: 1, H0632: 1, T0060: 1, T0082: 1, H0318: 1, S0049: 1, H0251: 1, H0309: 1, H0054: 1, H0327: 1, H0530: 1, H0544: 1, H0123: 1, H0050: 1, L0471: 1,					
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HACMZ45	HACMZ45R	987	3 - 245	3162	Thr-11 to Gly-16, Ser-49 to Ser-55, Ile-64 to Gly-69.				
HACND54	HACND54R	988	2 - 274	3163	Gln-1 to Lys-6.	H0617: 9, H0618: 4, H0253: 4, H0545: 4, L0774: 4, L0439: 4, L0750: 4, L0766: 3, L0803: 3, L0806: 3, L0748: 3, L0747: 3, L0777: 3, L0752: 3, L0758: 3, H0685: 2, H0333: 2, H0559: 2, H0100: 2, L0644: 2, L0542: 2, L0565: 2, L0438: 2, L0587: 2, S0040: 1, S0114: 1, H0589: 1, S0418: 1, S0420: 1, S0356: 1, S0376: 1, H0580: 1, H0351: 1, H0411: 1, S0278: 1, H0549: 1, S0222: 1, H0431: 1, H0438: 1, T0109: 1, H0427: 1, S0280: 1,			

HACND56	HACND56R	989	166 - 318	3164		L0021: 1, H0599: 1, H0318: 1, H0052: 1, H0544: 1, H0046: 1, H0024: 1, H0373: 1, H0051: 1, H0071: 1, T0010: 1, H0266: 1, H0615: 1, T0006: 1, H0604: 1, H0213: 1, H0553: 1, H0124: 1, H0087: 1, H0264: 1, H0412: 1, H0059: 1, H0561: 1, H0132: 1, H0647: 1, S0208: 1, L0598: 1, L0770: 1, L0769: 1, L0646: 1, L0642: 1, L0643: 1, L0764: 1, L0768: 1, L0375: 1, L0629: 1, L0783: 1, L0809: 1, L0789: 1, L0790: 1, L0666: 1, L0665: 1, H0547: 1, H0519: 1, H0658: 1, H0660: 1, H0651: 1, S0330: 1, S0380: 1, S0146: 1, S0406: 1, H0576: 1, H0478: 1, L0749: 1, L0780: 1, L0755: 1, S0192: 1 and H0352: 1.		
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									H0616: 3, L0665: 3, L0794: 2, L0659: 2, L0779: 2, H0423: 2, H0171: 1, H0685: 1, H0675: 1, S0408: 1, H0013: 1, L0105: 1, H0581: 1, T0110: 1, S0214: 1, H0622: 1, H0561: 1, S0002: 1, H0529: 1, L0762: 1, L0667: 1, L0766: 1, L0805: 1, L0655: 1, L0658: 1, L0790: 1, H0702: 1, H0648: 1, H0521: 1, L0748: 1, L0777: 1, L0758: 1 and L0366: 1.			
HACNE40	HACNE40R	990	229 - 426	3165								
HACNF21	HACNF21R	991	3 - 542	3166	Asp-30 to Thr-37, Lys-81 to Glu-87.							
HACNF41	HACNF41R	992	2 - 91	3167	Ile-13 to Gly-18.							
HACNI47	HACNI47R	993	39 - 500	3168	Val-23 to Lys-30, Tyr-40 to Asn-50, Lys-63 to Lys-68, Leu-92 to Asn-102.	AR089: 18, AR060: 15, AR104: 14, AR096: 9, AR055: 6, AR061: 4						
HACNI86	HACNI86R	994	239 - 370	3169		L0754: 12, L0740: 8, L0731: 8, S0003: 6, L0649: 6, H0620: 5, S0214: 5, L0766: 5,						





	S0222: 1, H0586: 1, H0574: 1, T0039: 1, H0013: 1, S0280: 1, L0021: 1, H0575: 1, S0346: 1, H0581: 1, H0374: 1, H0309: 1, H0546: 1, H0024: 1, H0373: 1, H0051: 1, H0356: 1, H0266: 1, H0179: 1, S0318: 1, S0316: 1, H0687: 1, H0288: 1, H0031: 1, L0142: 1, H0628: 1, H0032: 1, S0036: 1, H0090: 1, H0591: 1, H0038: 1, H0616: 1, H0063: 1, H0413: 1, H0561: 1, H0366: 1, S0438: 1, S0440: 1, H0641: 1, S0144: 1, H0529: 1, L0762: 1, L0769: 1, L0641: 1, L0773: 1, L0381: 1, L0775: 1, L0375: 1, L0606: 1, L0809: 1, L0529: 1, L0368: 1, L0666: 1, L0664: 1, H0144: 1, H0701: 1, H0520: 1, H0659: 1, H0670: 1, H0651: 1,				
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HADDD29	HADDD29R	995	181 - 342	3170	Asn-14 to Thr-26.					
HADET44	HADET44R	996	2 - 304	3171						
HAHGU75	HAHGU75R	997	1 - 501	3172						
HAHHD12	HAHHD12R	998	1 - 96	3173	Leu-3 to Met-9, Gln-24 to Thr-32.					
HALSG11	HALSG11R	999	2 - 364	3174	Ser-25 to Cys-36, Gln-39 to Asp-56.					
HANGA96	HANGA96R	1000	40 - 246	3175	Asn-49 to Asp-54.					
HAOSA43	HAOSA43R	1001	61 - 222	3176			L0759: 8, S0010: 7, L0742: 7, L0455: 6, S0007: 5, L0809: 4, L0439: 4, H0013: 3, L0768: 3, L0753: 3, H0686: 2, S0134: 2, S0222: 2, H0052: 2, H0024: 2, L0769: 2, L0638: 2, L0521: 2, L0794: 2, L0438: 2, L0589: 2, L0608: 2,			

							H0543: 2, H0341: 1, H0441: 1, H0586: 1, S0346: 1, S0049: 1, H0569: 1, H0050: 1, T0010: 1, H0598: 1, H0272: 1, L0666: 1, H0144: 1, H0689: 1, L0747: 1, L0366: 1 and H0423: 1.			
HAOSB87	HAOSB87R	1002	1 - 348	3177	Val-77 to Val-86.					
HAOSC40	HAOSC40R	1003	55 - 327	3178	Pro-69 to Leu-76.		L0766: 8, L0803: 7, L0731: 7, L0758: 5, S0358: 4, S0360: 4, L0794: 4, H0547: 4, S0440: 3, L0662: 3, L0659: 3, L0809: 3, L0666: 3, L0663: 3, S0374: 3, L0755: 3, L0596: 3, H0543: 3, H0583: 2, H0004: 2, H0622: 2, L0194: 2, H0038: 2, S0422: 2, L0771: 2, L0551: 2, L0774: 2, L0655: 2, L0526: 2, L0665: 2, H0659: 2, L0747: 2, L0750: 2, L0756: 2, S0436: 2, H0624: 1, H0170: 1, H0159: 1, H0686: 1, H0685: 1,			

									H0650: 1, H0657: 1, S0116: 1, H0341: 1, S0442: 1, S0376: 1, S0444: 1, H0619: 1, L0717: 1, H0411: 1, S0222: 1, H0587: 1, H0497: 1, H0427: 1, H0042: 1, H0596: 1, T0110: 1, H0081: 1, H0050: 1, H0687: 1, S0003: 1, H0252: 1, H0213: 1, H0163: 1, H0591: 1, H0634: 1, H0616: 1, H0063: 1, H0413: 1, H0100: 1, H0529: 1, L0638: 1, L0637: 1, L0800: 1, L0764: 1, L0773: 1, L0521: 1, L0768: 1, L0784: 1, L0783: 1, L0788: 1, L0790: 1, L0664: 1, H0436: 1, S0392: 1, H0627: 1, L0748: 1, L0754: 1, L0749: 1, L0759: 1, H0445: 1, S0434: 1, H0423: 1, S0412: 1 and S0424: 1.					
HAOSE70	HAOSE70R	1004	85 - 273	3179										
HAOSF68	HAOSF68R	1005	1 - 630	3180										

HAOSG95	HAOSG95R	1006	51 - 485	3181	Arg-5 to Arg-17, Asp-25 to Val-31.			
HAOSI79	HAOSI79R	1007	1 - 543	3182	Val-7 to Glu-13, Thr-20 to Arg-26, Lys-34 to Phe-40, Arg-46 to Lys-51.			
HAOSJ27	HAOSJ27R	1008	2 - 166	3183	Lys-27 to Gln-39, Gln-47 to Thr-52.			
HAOSJ33	HAOSJ33R	1009	3 - 353	3184	Leu-3 to Glu-14, Ser-95 to Ala-105.			
HAOSJ73	HAOSJ73R	1010	1 - 114	3185				
HAOSK38	HAOSK38R	1011	1 - 303	3186	Pro-24 to Val-49, Tyr-51 to Leu-56.	H0585: 27, H0556: 17, L0595: 15, L0591: 13, L0593: 13, H0046: 12, H0543: 12, H0521: 11, L0747: 11, L0596: 11, H0265: 10, H0040: 10, H0266: 9, H0038: 9, H0494: 9, L0588: 9, H0656: 8, H0581: 8, H0617: 8, L0664: 8, H0519: 8, L0601: 8, L0163: 7, H0083: 7, H0529: 7, L0665: 7, L0602: 7, H0657: 6, H0599: 6, H0618: 6, H0318: 6, H0551: 6, L0666: 6, H0547: 6, H0542: 6, H0141: 5, H0402: 5, S0358: 5,		

S0360: 5, S0046: 5, H0013: 5, H0052: 5, H0616: 5, H0087: 5, H0264: 5, T0041: 5, T0042: 5, S0440: 5, L0662: 5, L0774: 5, L0783: 5, L0748: 5, L0751: 5, L0758: 5, H0445: 5, L0599: 5, L0608: 5, H0341: 4, S0420: 4, S0354: 4, H0619: 4, S0222: 4, H0039: 4, H0213: 4, H0560: 4, L0521: 4, L0663: 4, L0565: 4, L0750: 4, L0752: 4, L0362: 4, L0615: 3, H0686: 3, H0650: 3, S0356: 3, S0045: 3, H0438: 3, H0575: 3, H0253: 3, S0010: 3, H0251: 3, H0123: 3, T0023: 3, L0456: 3, H0124: 3, H0561: 3, H0509: 3, H0641: 3, H0646: 3, L0598: 3, L0646: 3, L0768: 3, L0655: 3, H0144: 3, H0689: 3, H0659: 3, H0666: 3, S0152: 3,
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HAOSL36	HAOSL36R	1012	3 - 269	3187		S0418: 10, L0749: 9, L0809: 7, S0406: 6, L0766: 5, L0748: 5, L0740: 5, L0752: 5, L0731: 5, S0360: 4, L0509: 4, L0665: 4, L0754: 4, S0424: 4, H0638: 3, S0420: 3, S0410: 3, H0013: 3, H0318: 3, H0545: 3, H0050: 3, H0040: 3, L0664: 3, H0658: 3, H0521: 3, L0750: 3, H0556: 2, H0341: 2, H0580: 2, S0222: 2, H0333: 2, L0471: 2, H0620: 2, H0687: 2, H0553: 2, H0673: 2, H0674: 2, H0068: 2, H0551: 2, H0494: 2, H0560: 2, S0438: 2, S0440: 2, H0509: 2, L0769: 2, L0638: 2,			

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HAOSL47	HAOSL47R	1013	2 - 409	3188	Thr-12 to Thr-17, Leu-31 to Met-36, Pro-97 to Lys-103, Gln-126 to Trp-136.	H0056: 1, H0623: 1, L0564: 1, T0041: 1, S0150: 1, H0633: 1, S0144: 1, H0538: 1, S0210: 1, S0002: 1, L0369: 1, L0506: 1, L0500: 1, L0501: 1, L0646: 1, L0374: 1, L0765: 1, L0363: 1, L0381: 1, L0803: 1, L0653: 1, L0493: 1, L0526: 1, L0783: 1, L0383: 1, L0666: 1, L0663: 1, S0006: 1, H0593: 1, S0126: 1, H0711: 1, H0682: 1, H0670: 1, H0672: 1, H0651: 1, S0152: 1, S0454: 1, S0262: 1, L0356: 1, S0390: 1, L0747: 1, L0780: 1, L0753: 1, L0755: 1, L0757: 1, H0707: 1, L0485: 1, L0599: 1, L0608: 1, L0601: 1, H0667: 1 and H0008: 1.		
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HAOSP50	HAOSP50R	1014	183 - 380	3189	Ser-53 to Pro-60.	H0509: 1, S0210: 1, L0520: 1, L0762: 1, L0501: 1, L0765: 1, L0771: 1, L0521: 1, L0768: 1, L0387: 1, L0498: 1, L0375: 1, L0806: 1, L0655: 1, L0661: 1, L0807: 1, L0527: 1, L0382: 1, L0809: 1, L0519: 1, L0663: 1, S0428: 1, S0374: 1, H0723: 1, H0519: 1, H0593: 1, H0658: 1, H0648: 1, H0651: 1, S0330: 1, H0539: 1, S0378: 1, H0710: 1, S0152: 1, H0521: 1, H0522: 1, S0044: 1, H0576: 1, S0390: 1, S0028: 1, S0124: 1, S0032: 1, L0753: 1, S0434: 1, L0485: 1, L0581: 1, L0595: 1, L0366: 1, S0106: 1, H0668: 1, S0026: 1, H0653: 1, H0665: 1, S0194: 1, H0423: 1, H0422: 1, S0456: 1 and H0352: 1.		
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HAOSS30	HAOSS30R	1015	3 - 509	3190	Pro-11 to His-21, Glu-30 to Glu-41, Arg-55 to Ser-64, Arg-89 to Thr-96, Cys-99 to Gln-106, Pro-116 to His-124.	L0439: 16, S0222: 5, H0733: 4, L0770: 4, L0809: 4, L0747: 4, S0356: 3, L0471: 3, S0366: 3, L0766: 3, S0436: 3, H0556: 2, L0622: 2, H0373: 2, S0628: 2, H0266: 2, H0687: 2, H0617: 2, L0637: 2, L0803: 2, L0789: 2, H0518: 2, L0748: 2, S0434: 2, L0604: 2, H0686: 1, S0040: 1, H0583: 1, S0001: 1, S0420: 1, H0729: 1, H0722: 1, H0619: 1, H0333: 1, H0318: 1, H0007: 1, H0052: 1, H0009: 1, L0163: 1, H0051: 1, H0428: 1, H0181: 1, S0364: 1, H0708: 1, H0135: 1, H0413: 1, S0440: 1, L5575: 1, L0764: 1, L0375: 1, L0378: 1, L0652: 1, L0438: 1, S0126: 1, H0658: 1, H0539: 1, L0740: 1, L0749: 1, L0779: 1, L0752: 1 and		
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HAOSU85	HAOSU85R	1016	2 - 508	3191	His-1 to Phe-7, Pro-16 to His-26, Asp-44 to Ser-52.	L0758: 1. H0686: 2, L0362: 2, H0100: 1, H0646: 1 and L0766: 1.			
HAOSW92	HAOSW92R	1017	93 - 317	3192		L0777: 8, L0754: 6, L0662: 4, L0766: 4, S0136: 3, S0406: 2, L0744: 2, L0780: 2, L0752: 2, L0594: 2, H0556: 1, H0686: 1, S0418: 1, S0376: 1, S0360: 1, H0580: 1, H0587: 1, H0486: 1, S0280: 1, L0021: 1, L0105: 1, H0428: 1, L0055: 1, H0212: 1, H0040: 1, S0422: 1, L0639: 1, L5575: 1, L0772: 1, L0372: 1, L0764: 1, L0794: 1, L0522: 1, L0803: 1, L0659: 1, L0529: 1, L0665: 1, H0144: 1, H0547: 1, H0519: 1, H0684: 1, H0659: 1, H0670: 1, L0748: 1, L0756: 1, L0757: 1, L0758: 1, L0759: 1, L0596: 1, L0589: 1, L0605: 1, L0599: 1,			

							H0667: 1, H0542: 1 and H0506: 1.			
HAOTB47	HAOTB47R	1018	3 - 107	3193						
HAOTB58	HAOTB58R	1019	336 - 485	3194		Ile-3 to Asp-9.	L0756: 6, L0777: 6, S0408: 5, L0770: 5, H0547: 5, S0360: 4, L0665: 4, H0624: 3, H0687: 3, H0170: 2, H0686: 2, L0717: 2, H0497: 2, L0163: 2, L0794: 2, L0766: 2, S0126: 2, L0752: 2, L0731: 2, H0657: 1, H0656: 1, L0808: 1, H0341: 1, S0282: 1, S0442: 1, S0354: 1, S0045: 1, S0222: 1, H0486: 1, L0586: 1, H0156: 1, H0575: 1, H0318: 1, H0581: 1, H0052: 1, L0738: 1, H0266: 1, H0553: 1, H0169: 1, S0036: 1, H0087: 1, H0413: 1, S0422: 1, L0598: 1, L0520: 1, L0763: 1, L0638: 1, L0764: 1, L0803: 1, L0776: 1, L0658: 1, L0659: 1, L0809: 1, L0789: 1,			

						L0664: 1, S0374: 1, H0520: 1, H0659: 1, H0670: 1, H0672: 1, H0436: 1, S0028: 1, L0439: 1, H0445: 1, L0589: 1, L0608: 1, S0192: 1, H0543: 1, H0423: 1, S0424: 1 and L0600: 1.			
HAOTD32	HAOTD32R	1020	209 - 340	3195		L0747: 28, S0192: 21, L0659: 17, L0740: 12, L0757: 10, S0360: 9, H0545: 9, L0662: 9, L0775: 9, L0665: 9, L0439: 9, L0664: 8, S0358: 7, L0666: 7, L0750: 7, L0601: 7, L0777: 6, L0731: 6, L0471: 5, S0003: 5, H0038: 5, H0547: 5, S0206: 5, L0748: 5, L0756: 5, L0752: 5, L0758: 5, S0011: 5, S0026: 5, T0049: 4, L0717: 4, H0575: 4, H0012: 4, H0620: 4, H0083: 4, H0090: 4, L0770: 4, L0764: 4, L0794: 4, L0766: 4, L0804: 4, L0375: 4,			



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HAOTE06	HAOTE06R	1021	2 - 472	3196		L0803: 9, L0794: 8, L0740: 5, L0748: 4, L0439: 4, L0747: 4, L0438: 3, L0779: 3, L0758: 3, H0553: 2, L0646: 2, L0800: 2, L0804: 2, L0809: 2,			



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HAOTF90	HAOTF90R	1023	3 - 176	3198		L0439: 5, S0026: 5, H0624: 4, H0413: 4, S0418: 3, H0580: 3, H0373: 3, H0038: 3, H0494: 3, H0144: 3, H0686: 2, S0358: 2, H0261: 2, S0222: 2, H0013: 2, H0581: 2, H0052: 2, H0545: 2, H0031: 2, H0529: 2, L0664: 2, S0027: 2, L0747: 2, L0777: 2, L0752: 2, L0755: 2,			

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HAOTG75	HAOTG75R	1024	2 - 328	3199	Glu-1 to Gln-8, Pro-31 to Trp-36.	L0747: 28, S0192: 21, L0659: 17, L0740: 12, L0757: 10, S0360: 9, H0545: 9, L0662: 9, L0775: 9, L0665: 9, L0439: 9, L0664: 8, S0358: 7, L0666: 7, L0750: 7, L0601: 7, L0777: 6, L0731: 6, L0471: 5, S0003: 5, H0038: 5, H0547: 5, S0206: 5, L0748: 5, L0756: 5, L0752: 5, L0758: 5, S0011: 5, S0026: 5, T0049: 4, L0717: 4, H0575: 4, H0012: 4, H0620: 4, H0083: 4, H0090: 4, L0770: 4, L0764: 4, L0794: 4, L0766: 4, L0804: 4, L0375: 4, L0806: 4, L0754: 4, L0779: 4, L0596: 4, L0588: 4, L0581: 4,			
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L0603: 4, H0556: 3, H0431: 3, H0370: 3, S0010: 3, H0596: 3, S0388: 3, T0023: 3, H0031: 3, H0264: 3, L0564: 3, S0372: 3, L0769: 3, L0667: 3, L0521: 3, L0768: 3, L0774: 3, L0657: 3, L0783: 3, L0809: 3, L0663: 3, S0126: 3, S0122: 3, H0682: 3, L0759: 3, L0591: 3, H0352: 3, L0353: 2, H0686: 2, S0040: 2, H0295: 2, H0650: 2, S0045: 2, S0046: 2, S0132: 2, H0549: 2, S0222: 2, H0427: 2, H0156: 2, H0263: 2, H0597: 2, H0546: 2, H0046: 2, H0050: 2, H0024: 2, T0010: 2, H0375: 2, H0266: 2, H0271: 2, H0030: 2, H0553: 2, H0644: 2, H0674: 2, H0135: 2, H0591: 2, H0616: 2, H0412: 2, H0413: 2, H0059: 2, H0100: 2,					
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HAOTH28	HAOTH28R	1025	33 - 164	3200				
HAOTI07	HAOTI07R	1026	3 - 398	3201	Pro-1 to Arg-6, Met-12 to Ser-21.			
HAOTT79	HAOTT79R	1027	3 - 392	3202				
HAOTU79	HAOTU79R	1028	15 - 455	3203				
HAOTW22	HAOTW22R	1029	1 - 201	3204	Ser-35 to Ser-41, Ile-50 to Gly-55.			
HAOTW30	HAOTW30R	1030	376 - 564	3205	Arg-1 to Gly-7.			
HAOTW65	HAOTW65R	1031	113 - 475	3206		H0686: 2 and S0358: 1.		

HAPNK45	HAPNK45R	1032	68 - 232	3207				
HAPPR43	HAPPR43R	1033	200 - 313	3208	Lys-1 to Ser-6, Ala-26 to Thr-31.			
HAPQO14	HAPQO14R	1034	5 - 193	3209	Ser-1 to Pro-11.			
HAQML40	HAQML40R	1035	1 - 258	3210				
HASME85	HASME85R	1036	208 - 396	3211				
HAUAK54	HAUAK54R	1037	3 - 299	3212				
HAVMB46	HAVMB46R	1038	84 - 203	3213	Ser-13 to Arg-19, Ile-28 to Asn-33.			
HAVMW69	HAVMW69R	1039	3 - 116	3214		L0439: 2, L0755: 2, S0412: 2, H0170: 1, H0497: 1, H0591: 1, H0038: 1, L0641: 1, L0774: 1, L0651: 1, L0776: 1, L4501: 1, L0666: 1, L0663: 1, H0144: 1, L0438: 1, S0126: 1, H0659: 1, H0648: 1, L0602: 1, L0748: 1, L0749: 1, L0750: 1, L0756: 1, L0752: 1, L0759: 1, L0599: 1 and L0362: 1.		
HAVNQ92	HAVNQ92R A	1040	1 - 165	3215	Ala-19 to Arg-24.			
HAVOJ11	HAVOJ11R	1041	108 - 239	3216	Gly-1 to Thr-12, Glu-23 to Lys-38.			
HAZAC68	HAZAC68R	1042	3 - 587	3217	Ser-119 to Lys-124.			
HAZAD13	HAZAD13R	1043	2 - 517	3218	Lys-32 to Arg-40,			

					Ser-54 to Gly-59, Glu-133 to Ala-147, Gln-153 to Gln-164.				
HAZAD40	HAZAD40R	1044	191 - 445	3219	Val-9 to Gly-24.			S0360: 1, H0486: 1, L0761: 1, L0803: 1, L0774: 1, L0666: 1, L0663: 1, L0665: 1, H0520: 1, H0690: 1, H0435: 1 and L0747: 1.	
HAZAE44	HAZAE44R	1045	3 - 512	3220					
HAZAG23	HAZAG23R	1046	2 - 466	3221	Gln-12 to Thr-20, Cys-39 to Asn-45, Thr-60 to Gly-66, Lys-99 to Asp-106, Asp-119 to Pro-127.			H0424: 16, S0380: 13, L0748: 13, L0750: 12, S0440: 10, S0444: 9, L0755: 9, L0758: 9, S0192: 9, H0484: 8, S0358: 8, H0545: 8, L0809: 8, L0747: 8, L0749: 8, S0360: 7, S0410: 7, S0406: 7, L0752: 7, L0766: 6, S0374: 6, L0751: 6, L0754: 6, H0423: 6, S0442: 5, H0672: 5, S0378: 5, S0404: 5, L0759: 5, H0556: 4, S0356: 4, S0376: 4, H0546: 4, H0150: 4, S0438: 4, L0775: 4, L0776: 4, L0518: 4, S0328: 4, L0740: 4,	

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HAZAG92	HAZAG92R	1047	282 - 467	3222	Pro-48 to Gly-59.								
HAZAH79	HAZAH79R	1048	138 - 515	3223	Gly-2 to Ser-9, Pro-46 to Cys-60, Pro-62 to His-69, Pro-81 to Thr-91, Ala-96 to Ser-101.								
HAZAI23	HAZAI23R	1049	1 - 165	3224	Lys-11 to Ser-16, Arg-20 to Glu-28.				L0747: 21, L0748: 18, L0750: 15, S0408: 11, L0771: 10, L0775: 9,				

L0742: 8, S0410: 6, L0756: 6, L0752: 6, L0758: 6, L0731: 5, H0341: 4, L0766: 4, L0803: 4, L0776: 4, S0126: 4, H0170: 3, H0486: 3, S0346: 3, H0204: 3, H0545: 3, L0471: 3, S0440: 3, L0769: 3, L0772: 3, L0804: 3, H0214: 3, S0404: 3, L0744: 3, L0754: 3, L0757: 3, H0506: 3, H0171: 2, H0685: 2, S0420: 2, S0356: 2, S0358: 2, S0045: 2, H0587: 2, H0069: 2, L0021: 2, H0575: 2, T0048: 2, H0318: 2, H0581: 2, H0597: 2, H0009: 2, H0014: 2, H0510: 2, H0622: 2, H0031: 2, S0364: 2, H0591: 2, H0056: 2, H0494: 2, S0438: 2, L0770: 2, L0761: 2, L0521: 2, L0649: 2, L0650: 2, L0526: 2, L0792: 2, L0666: 2, L0665: 2,					
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HAZA187	HAZA187R	1050	264 - 428	3225	Phe-34 to Lys-41.	H0413: 1, T0069: 1, S0038: 1, T0041: 1, T0042: 1, H0512: 1, H0560: 1, H0646: 1, S0344: 1, S0422: 1, H0529: 1, L0520: 1, L0763: 1, L0646: 1, L0764: 1, L0773: 1, L0768: 1, L0522: 1, L0774: 1, L0784: 1, L0806: 1, L0805: 1, L0653: 1, L0655: 1, L0379: 1, L0807: 1, L0659: 1, L0517: 1, L0783: 1, L0519: 1, L0789: 1, L0791: 1, L0664: 1, S0053: 1, H0683: 1, H0659: 1, H0658: 1, S0328: 1, H0710: 1, H0696: 1, S0406: 1, L0751: 1, L0749: 1, L0786: 1, L0780: 1, L0753: 1, L0755: 1, S0260: 1, L0366: 1, H0653: 1, H0667: 1, H0542: 1, H0543: 1 and H0712: 1.		
HAZA187	HAZA187R	1050	264 - 428	3225	Phe-34 to Lys-41.	L0659: 6, L0662: 5, S0212: 4, S0003: 4, H0551: 4, S0192: 4,		

	S0376: 3, S0440: 3, S0374: 3, H0521: 3, S0040: 2, S0418: 2, S0444: 2, H0580: 2, H0486: 2, H0575: 2, L0471: 2, H0024: 2, H0553: 2, L0637: 2, S0126: 2, S0406: 2, S0028: 2, L0748: 2, L0754: 2, L0757: 2, S0434: 2, L0590: 2, S0242: 2, H0686: 1, H0685: 1, H0664: 1, S0420: 1, L0005: 1, S0360: 1, S0408: 1, S0045: 1, S0476: 1, S0278: 1, H0357: 1, H0586: 1, T0039: 1, H0635: 1, H0427: 1, L0022: 1, H0004: 1, H0505: 1, S0049: 1, H0251: 1, H0263: 1, T0003: 1, H0373: 1, H0051: 1, H0356: 1, H0622: 1, H0644: 1, H0090: 1, H0412: 1, H0623: 1, H0560: 1, H0641: 1, H0633: 1, S0142: 1, S0208: 1, L0773: 1, L0521: 1,				
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HAZAI89	HAZAI89R	1051	3 - 260	3226	Ser-54 to Ser-60, Ile-69 to Gly-74.					
HAZAJ72	HAZAJ72R	1052	1 - 612	3227	Ala-17 to Asp-36, Thr-56 to Met-61.		S0420: 2, H0575: 2, S0418: 1, L0005: 1, S0356: 1, H0619: 1, H0097: 1, H0581: 1, H0012: 1, H0373: 1, H0266: 1, S0250: 1, T0042: 1, H0625: 1, H0561: 1, S0438: 1, S0150: 1, H0641: 1, S0210: 1, H0693: 1, H0519: 1, H0690: 1, L0748: 1 and H0653: 1.			

HAZAQ80	HAZAQ80R	1053	27 - 389	3228	Thr-41 to Lys-46, Thr-53 to Gly-59, Ala-77 to Asp-84.			
HAZAW22	HAZAW22R	1054	2 - 172	3229	Ser-1 to Leu-14, Glu-39 to Thr-47.	L0748: 31, L0747: 18, L0752: 17, L0758: 17, L0777: 15, L0766: 13, H0014: 9, L0776: 9, L0751: 9, L0740: 7, L0779: 7, L0754: 6, H0040: 5, L0769: 5, S0330: 5, L0439: 5, L0756: 5, L0599: 5, S0356: 4, H0587: 4, H0622: 4, L0783: 4, L0744: 4, L0745: 4, L0749: 4, L0755: 4, S0031: 4, H0624: 3, S0222: 3, H0156: 3, S0010: 3, S0049: 3, S0051: 3, S0003: 3, H0591: 3, H0038: 3, L0763: 3, L0770: 3, L0662: 3, L0551: 3, L0803: 3, L0664: 3, H0144: 3, H0547: 3, H0521: 3, L0757: 3, L0759: 3, L0596: 3, L0608: 3, L0595: 3, S0114: 2, S0116: 2, H0341: 2, S0418: 2,		

	S0360: 2, H0619: 2, H0393: 2, H0013: 2, H0575: 2, H0318: 2, H0581: 2, H0051: 2, S0388: 2, H0428: 2, T0006: 2, H0673: 2, H0169: 2, H0674: 2, S0036: 2, H0616: 2, H0551: 2, H0268: 2, L0625: 2, L0768: 2, L0649: 2, L0775: 2, L0806: 2, L0805: 2, H0539: 2, L0731: 2, S0260: 2, H0445: 2, S0434: 2, L0605: 2, L0594: 2, H0543: 2, H0170: 1, H0171: 1, H0716: 1, S6024: 1, S0134: 1, S0218: 1, H0583: 1, H0650: 1, H0657: 1, L0785: 1, S0212: 1, S0282: 1, S0035: 1, S0030: 1, H0305: 1, H0638: 1, S0348: 1, S0420: 1, L0005: 1, S0442: 1, H0340: 1, S0476: 1, H0645: 1, S0300: 1, H0411: 1, S0278: 1, H0549: 1, H0431: 1,				
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1048

HAZBH84	HAZBH84R	1055	225 - 359	3230				H0690: 1, H0660: 1, S0136: 1, H0522: 1, S0406: 1, H0555: 1, S3012: 1, S0027: 1, S0028: 1, L0743: 1, L0750: 1, L0604: 1, L0361: 1, S0026: 1, H0653: 1, S0192: 1, S0196: 1, H0542: 1, H0423: 1, S0412: 1 and S0424: 1.		
								S0003: 154, S0214: 41, H0545: 38, L0651: 34, H0546: 17, L0747: 15, L0757: 14, L0731: 10, L0659: 7, L0776: 6, L0749: 6, H0544: 5, S0122: 5, H0365: 5, L0740: 5, S0360: 4, L0771: 4, L0662: 4, L0768: 4, H0150: 3, H0169: 3, L0750: 3, L0779: 3, H0661: 2, S0376: 2, H0163: 2, S0144: 2, L0764: 2, L0766: 2, L0649: 2, L0775: 2, L0653: 2, L0666: 2, S0126: 2, L0754: 2, L0759: 2, H0171: 1, H0419: 1,		



HAZBI39	HAZBI39R	1056	56 - 424	3231	Ser-29 to Ile-39, Gly-42 to Trp-48, Lys-82 to Val-92.	H0411: 1, H0357: 1, H0486: 1, L0021: 1, H0309: 1, H0231: 1, L0738: 1, H0099: 1, H0364: 1, H0039: 1, S0366: 1, H0038: 1, S0142: 1, S0002: 1, L0762: 1, L0640: 1, L0763: 1, L0637: 1, L0646: 1, L0773: 1, L0523: 1, L0655: 1, L0379: 1, L0783: 1, L0663: 1, L0664: 1, L0565: 1, S0008: 1, H0690: 1, S0328: 1, H0696: 1, L0755: 1, L0758: 1, H0595: 1 and H0506: 1.		
						L0758: 3, H0068: 2, L0749: 2, L0756: 2, L0731: 2, S0026: 2, H0136: 2, S0040: 1, L0005: 1, H0351: 1, H0318: 1, H0052: 1, H0530: 1, H0266: 1, S0003: 1, H0412: 1, T0004: 1, T0042: 1, S0422: 1, H0529: 1, H0517: 1, L0762: 1, L0763: 1, L0770: 1,		

							L0769: 1, L0766: 1, L0775: 1, L0809: 1, H0698: 1, H0690: 1, S0390: 1, S0028: 1, L0742: 1, L0748: 1, L0747: 1, L0779: 1, L0752: 1, L0755: 1, L0759: 1, S0308: 1, H0542: 1, H0543: 1 and H0423: 1.			
HAZBJ69	HAZBJ69R	1057	3 - 323	3232		Gly-1 to Pro-6, Lys-58 to Asn-71.				
HBAGS73	HBAGS73R	1058	207 - 371	3233		Pro-15 to Thr-22, Lys-28 to Arg-35.				
HBBBE13	HBBBE13R	1059	2 - 199	3234						
HBCPI58	HBCPI58RA	1060	3 - 245	3235						
HBJAC26	HBJAC26R	1061	267 - 446	3236			L0665: 3, H0318: 2, L0659: 2, S0330: 2, L0439: 2, L0599: 2, H0583: 1, H0038: 1, L0761: 1, L0771: 1, L0387: 1, L0655: 1, L0666: 1, L0779: 1, L0777: 1, L0758: 1 and L0608: 1.			
HBJFS85	HBJFS85R	1062	94 - 261	3237		Asn-30 to Ile-35.				
HBJHY72	HBJHY72RP 00B	1063	1 - 297	3238		Gly-1 to Pro-38, Leu-45 to Gly-64.	AR052: 12, AR055: 8, AR053: 8, AR033: 6, AR089: 6, AR061: 6, AR060: 5, AR096: 3,			

AR104: - 1, AR039: 0	L0794: 5, L0766: 3, L0759: 3, S0212: 2, H0318: 2, L0803: 2, L0804: 2, L0378: 2, L0665: 2, L0438: 2, L0439: 2, L0749: 2, L0591: 2, L0599: 2, L0362: 2, H0686: 1, S0342: 1, S0134: 1, H0656: 1, H0669: 1, S0358: 1, H0370: 1, H0069: 1, S0346: 1, H0251: 1, H0050: 1, H0373: 1, H0266: 1, S0022: 1, L0483: 1, H0553: 1, H0163: 1, H0090: 1, H0116: 1, H0509: 1, S0426: 1, H0529: 1, L0769: 1, L0638: 1, L0646: 1, L0648: 1, L0768: 1, L0381: 1, L0375: 1, L0653: 1, L0659: 1, L0782: 1, L0809: 1, L0793: 1, H0691: 1, H0435: 1, H0659: 1, H0648: 1, S0152: 1, S0390: 1, S0027: 1, S0028: 1, L0777: 1,
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								L0731: 1, S0260: 1, L0596: 1, S0192: 1 and S0424: 1.			
HBJMN13	HBJMN13R	1064	145 - 231	3239			Glu-8 to Asn-13, Arg-16 to Thr-29.				
HBXCG52	HBXCG52R	1065	59 - 547	3240			Lys-23 to Lys-32, Ser-72 to Leu-80, Ser-90 to Gly-95, Leu-98 to His-103, Ser-106 to Gly-113, Ile-121 to Phe-128.	S0280: 1 and S0038: 1.			
HBXFO08	HBXFO08R	1066	1 - 126	3241			Leu-2 to Val-10.				
HCAC53	HCAC53RP 00A	1067	145 - 543	3242			His-2 to Glu-28, Ala-37 to Gly-45, His-54 to Pro-62, Glu-69 to Thr-77.				
HCHAJ85	HCHAJ85R	1068	171 - 359	3243			Arg-1 to Arg-6, Phe-27 to Arg-32.				
HCHMM71	HCHMM71R	1069	2 - 322	3244				H0651: 9, L0601: 5, H0559: 4, H0494: 4, L0646: 3, H0484: 2, H0255: 2, S0358: 2, H0550: 2, H0309: 2, H0014: 2, H0188: 2, H0617: 2, H0646: 2, L0769: 2, L0644: 2, L0806: 2, H0689: 2, L0750: 2, L0603: 2, H0624: 1, H0171: 1, H0657: 1, H0663: 1,			

							S0360: 1, H0574: 1, H0257: 1, H0013: 1, H0635: 1, H0098: 1, H0253: 1, H0327: 1, H0545: 1, H0024: 1, H0181: 1, H0359: 1, S0150: 1, L0369: 1, L0771: 1, L0662: 1, L0766: 1, L0803: 1, L0661: 1, S0428: 1, H0670: 1, S0328: 1, L0748: 1, L0439: 1, L0758: 1 and H0543: 1.			
HCHMW20	HCHMW20R	1070	53 - 319	3245	Ser-1 to Thr-8, Glu-17 to Ala-32, Arg-39 to Trp-47.					
HCLBH21	HCLBH21R	1071	3 - 134	3246						
HCNDT49	HCNDT49R	1072	234 - 443	3247	Gln-17 to Pro-27.					
							L0439: 8, H0052: 7, L0748: 7, S0440: 5, L0758: 5, H0046: 4, H0038: 4, L0769: 4, S0442: 3, H0013: 3, H0253: 3, T0010: 3, L0774: 3, L0776: 3, H0144: 3, H0521: 3, S0404: 3, L0752: 3, L0731: 3, H0656: 2, S0358: 2, S0360: 2, S0222: 2, H0618: 2, H0620: 2, L0351: 2,			

				S0422: 2, L0764: 2, L0771: 2, L0783: 2, L0793: 2, H0658: 2, H0666: 2, L0751: 2, L0754: 2, L0745: 2, L0747: 2, L0750: 2, H0624: 1, H0265: 1, H0556: 1, H0686: 1, S0134: 1, S0212: 1, S0001: 1, H0254: 1, H0661: 1, S0354: 1, S0444: 1, S0408: 1, S0300: 1, S0278: 1, H0369: 1, H0370: 1, H0333: 1, H0574: 1, H0486: 1, H0036: 1, H0263: 1, H0597: 1, H0545: 1, H0572: 1, H0024: 1, S0388: 1, S0051: 1, S0250: 1, H0252: 1, H0428: 1, H0039: 1, H0644: 1, L0055: 1, H0674: 1, H0135: 1, H0087: 1, T0067: 1, H0488: 1, H0529: 1, L0763: 1, L0770: 1, L0761: 1, L0374: 1, L0662: 1, L0768: 1, L0766: 1, L0803: 1, L0775: 1,				
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							L0805: 1, L0653: 1, L0526: 1, L5622: 1, L0666: 1, L0664: 1, L0665: 1, S0053: 1, H0547: 1, H0682: 1, H0435: 1, H0670: 1, H0660: 1, H0648: 1, H0672: 1, S0328: 1, H0539: 1, S0152: 1, H0696: 1, S0044: 1, S0406: 1, H0631: 1, S3014: 1, S0028: 1, L0742: 1, L0749: 1, L0759: 1, S0436: 1, S0011: 1, S0192: 1, H0542: 1, H0423: 1, S0398: 1 and H0506: 1.			
HCOMA72	HCOMA72R	1073	25 - 273	3248	Arg-1 to Leu-10, Ser-32 to Ala-45, Ala-58 to Gly-68.					
HCOMB04	HCOMB04R	1074	32 - 754	3249	Tyr-3 to Gly-10, Glu-19 to Trp-25.					
							L0747: 15, L0750: 7, L0731: 7, L0588: 6, L0748: 5, L0439: 5, L0759: 5, H0150: 3, S0144: 3, L0666: 3, L0665: 3, L0752: 3, L0758: 3, L0591: 3, S6024: 2, T0049: 2, S0356: 2, H0674: 2, H0413: 2, S0142: 2,			

				L0770: 2, L0769: 2, L0774: 2, L0775: 2, L0657: 2, H0672: 2, S0328: 2, S0378: 2, L0605: 2, L0593: 2, H0624: 1, T0002: 1, H0638: 1, S0418: 1, L0005: 1, S0376: 1, S0444: 1, S0360: 1, H0675: 1, S0045: 1, H0393: 1, S0222: 1, H0441: 1, H0453: 1, H0333: 1, H0574: 1, H0486: 1, H0101: 1, L0021: 1, H0098: 1, T0010: 1, H0083: 1, H0266: 1, H0188: 1, S0003: 1, H0328: 1, H0615: 1, H0428: 1, T0006: 1, H0166: 1, H0598: 1, H0090: 1, H0063: 1, T0069: 1, H0509: 1, H0641: 1, S0002: 1, L0369: 1, L0372: 1, L0662: 1, L0794: 1, L0766: 1, L0803: 1, L0651: 1, L0655: 1, L0379: 1, L0656: 1, L0659: 1, L0782: 1, L0783: 1,		
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							L0788: 1, L0664: 1, L0565: 1, L0438: 1, H0547: 1, S0126: 1, H0435: 1, H0659: 1, H0658: 1, H0670: 1, H0522: 1, H0696: 1, L0740: 1, L0751: 1, L0745: 1, L0755: 1, L0757: 1, H0445: 1, H0343: 1, H0595: 1, L0596: 1, L0581: 1, L0599: 1 and S0192: 1.			
HCOMD38	HCOMD38R	1075	3 - 275	3250	Pro-1 to Pro-9, Ile-43 to Lys-48.					
HCOMD61	HCOMD61R	1076	1 - 315	3251						
HCOMF10	HCOMF10R	1077	350 - 622	3252	Asn-10 to Val-16.		L0740: 6, L0666: 2, H0547: 2, L0751: 2, L0777: 2, H0483: 1, S0358: 1, S0444: 1, H0038: 1, L0770: 1, L0768: 1, L0774: 1, L0805: 1, L0658: 1, L0789: 1, H0520: 1, H0659: 1, H0670: 1, L0747: 1, L0779: 1 and L0758: 1.			
HCOMF52	HCOMF52R	1078	2 - 523	3253	Lys-11 to Thr-16, Arg-18 to Glu-24, Arg-31 to Leu-38, Phe-51 to Glu-56.		L0439: 7, L0748: 5, H0255: 4, H0253: 4, H0012: 3, H0620: 3, H0617: 3, L0783: 3.			

				Glu-59 to Glu-67, Thr-102 to Thr-114, Leu-119 to Gln-124.	L0438: 3, H0618: 2, H0046: 2, L0769: 2, L0766: 2, L0532: 2, L0663: 2, H0521: 2, L0750: 2, L0777: 2, L0592: 2, H0543: 2, H0650: 1, S0212: 1, S0001: 1, H0483: 1, H0254: 1, H0638: 1, S0418: 1, S0358: 1, H0580: 1, S0468: 1, H0549: 1, H0559: 1, H0013: 1, S0280: 1, H0318: 1, H0052: 1, H0024: 1, H0252: 1, H0424: 1, H0553: 1, H0644: 1, H0124: 1, H0376: 1, H0135: 1, H0040: 1, H0087: 1, H0488: 1, T0042: 1, H0494: 1, H0509: 1, L0768: 1, L0388: 1, L0657: 1, L0659: 1, L0789: 1, L0352: 1, S0126: 1, H0689: 1, H0658: 1, H0670: 1, H0436: 1, H0478: 1, H0626: 1, L0742: 1, L0780: 1, L0731: 1, H0445: 1, L0608: 1,		
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HCOMG28	HCOMG28R	1079	46 - 357	3254	Lys-1 to Arg-8, Asp-20 to Thr-26, Gly-35 to Glu-48, Leu-66 to Arg-72, Phe-83 to Tyr-88.	L0366: 1 and S0276: 1.		
HCOMG40	HCOMG40R	1080	29 - 373	3255	Trp-13 to Asp-19, Cys-29 to Gln-34, Ala-41 to Arg-52, Gly-54 to Gln-59, Arg-69 to Tyr-83.			
HCOMG82	HCOMG82R	1081	233 - 436	3256				
HCOMH70	HCOMH70R	1082	21 - 167	3257	Pro-13 to Pro-22.	H0670: 14, S0360: 9, L0657: 5, L0659: 4, L0809: 4, H0696: 4, L0777: 4, S0356: 3, L0764: 3, L0662: 3, S0374: 3, H0637: 2, H0411: 2, H0486: 2, L0762: 2, L0763: 2, L0521: 2, L0768: 2, L0774: 2, L0805: 2, L0666: 2, L0665: 2, H0659: 2, H0672: 2, H0710: 2, S0406: 2, L0744: 2, L0748: 2, H0686: 1, S0040: 1, H0713: 1, H0657: 1, H0662: 1, S0444: 1, S0408: 1, S0410: 1,		

							H0602: 1, H0643: 1, T0048: 1, H0263: 1, H0596: 1, H0014: 1, H0015: 1, H0594: 1, H0271: 1, H0687: 1, S0003: 1, S0214: 1, H0169: 1, H0674: 1, S0450: 1, H0649: 1, L0640: 1, L0646: 1, L0641: 1, L0773: 1, L0648: 1, L0388: 1, L0784: 1, L0806: 1, L0776: 1, L0655: 1, L0519: 1, L0530: 1, H0547: 1, H0689: 1, H0435: 1, H0648: 1, S0328: 1, S0330: 1, H0555: 1, H0627: 1, S0390: 1, S0028: 1, L0751: 1, L0779: 1, L0731: 1, S0434: 1, L0581: 1, L0362: 1 and H0667: 1.					
HCOMI30	HCOMI30R	1083	42 - 497	3258								
HCOMI37	HCOMI37R	1084	244 - 618	3259								
HCOML11	HCOML11R	1085	255 - 605	3260	Lys-1 to Gly-10, Pro-13 to Asn-23.							
HCOMM12	HCOMM12R	1086	138 - 338	3261		L0743: 19, L0731: 13, L0744: 12, L0748: 11, L0666: 9, L0751: 9,						

L0664: 8, H0144: 8, H0333: 7, H0617: 7, L0769: 7, L0662: 7, S0022: 6, H0616: 6, H0087: 6, L0483: 5, H0181: 5, L0517: 5, L0519: 5, L0754: 5, H0677: 5, S0051: 4, S0344: 4, L0663: 4, H0658: 4, L0747: 4, L0750: 4, L0757: 4, H0295: 3, T0049: 3, H0255: 3, L0622: 3, T0039: 3, H0253: 3, H0545: 3, L0163: 3, H0594: 3, H0188: 3, H0673: 3, H0100: 3, S0142: 3, L0372: 3, L0775: 3, L0776: 3, L0657: 3, L0382: 3, L0665: 3, H0672: 3, S0027: 3, L0742: 3, L0752: 3, S0260: 3, H0445: 3, L0596: 3, L0588: 3, L0599: 3, S0420: 2, H0637: 2, S0045: 2, S0132: 2, S0300: 2, S0278: 2, S0222: 2, H0431: 2, H0392: 2, H0599: 2,					
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	H0575: 2, H0052: 2, H0309: 2, H0085: 2, H0597: 2, H0544: 2, H0428: 2, H0124: 2, S0036: 2, H0163: 2, H0038: 2, H0413: 2, H0529: 2, L0369: 2, L0763: 2, L0770: 2, L0638: 2, L0764: 2, L0771: 2, L0803: 2, L0804: 2, L0375: 2, L0655: 2, L0384: 2, L0809: 2, L0532: 2, S0374: 2, S0126: 2, H0670: 2, H0651: 2, H0521: 2, S0028: 2, L0740: 2, L0485: 2, L0362: 2, L0601: 2, S0192: 2, S0424: 2, L0600: 2, H0556: 1, T0002: 1, H0686: 1, S0040: 1, S0342: 1, H0294: 1, S0114: 1, S0134: 1, H0650: 1, H0657: 1, L0785: 1, H0341: 1, S0180: 1, S0212: 1, H0484: 1, H0483: 1, H0254: 1, H0671: 1, H0662: 1, H0402: 1, H0638: 1,				
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	S0418: 1, S0356: 1, T0007: 1, S0358: 1, S0007: 1, H0208: 1, H0441: 1, H0438: 1, H0587: 1, S0005: 1, L0623: 1, L0477: 1, T0114: 1, S0280: 1, L0021: 1, H0590: 1, H0004: 1, H0618: 1, S0010: 1, H0318: 1, S0049: 1, H0251: 1, H0596: 1, T0110: 1, H0327: 1, H0009: 1, H0123: 1, L0471: 1, H0006: 1, H0014: 1, H0051: 1, S0388: 1, H0510: 1, S0334: 1, H0687: 1, T0023: 1, T0006: 1, H0424: 1, H0182: 1, H0606: 1, H0383: 1, H0165: 1, H0166: 1, S0366: 1, H0135: 1, H0090: 1, T0067: 1, H0488: 1, H0412: 1, T0069: 1, S0112: 1, L0564: 1, H0494: 1, S0015: 1, H0561: 1, L0762: 1, L0640: 1, L0637: 1, L0761: 1, L0667: 1,	
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HCOMM55	HCOMM55R	1087	298 - 119	3262	Pro-10 to Leu-20, His-27 to Lys-40.			
HCOMO58	HCOMO58R	1088	1 - 336	3263	Phe-7 to Asp-29, Glu-31 to Lys-38, Thr-46 to Thr-52, Glu-65 to Arg-72.			
HCOMW52	HCOMW52R P00B	1089	3 - 443	3264				
HCOMX77	HCOMX77R	1090	166 - 492	3265				
HCONC18	HCONC18RP 00B	1091	3 - 161	3266				
HCONH28	HCONH28R	1092	76 - 267	3267		L0754: 3, H0624: 2, S0354: 2, H0124: 2, L0766: 2, L0751: 2, L0759: 2, S0116: 1, H0661: 1, H0098: 1, H0597: 1, L0157: 1, S0250: 1, S0003: 1, H0622: 1, H0553: 1, H0509: 1, L0521: 1, L0662: 1, L0768: 1, L0803: 1, L0657: 1, L0659: 1, L0666: 1, L0663: 1, H0144: 1, S0126: 1, H0670: 1, L0779: 1, L0777: 1, L0755: 1, L0589: 1 and L0362: 1.		
HCONK56	HCONK56R	1093	8 - 718	3268				
HCONK75	HCONK75R	1094	33 - 398	3269				

HCONL49	HCONL49R	1095	3 - 221	3270	His-23 to Lys-34, Arg-49 to Leu-57, Pro-59 to Ser-66.			
HCONL59	HCONL59R	1096	255 - 455	3271		L0748: 50, L0754: 42, L0731: 31, H0644: 30, L0747: 29, H0551: 22, S0418: 21, L0659: 17, H0619: 15, L0663: 14, L0666: 13, S0360: 10, H0622: 10, H0031: 10, H0553: 10, L0662: 10, S0126: 10, L0757: 10, L0603: 10, S0420: 8, H0486: 8, H0013: 8, H0050: 8, H0623: 8, L0717: 7, H0144: 7, L0770: 6, L0750: 6, H0427: 5, H0024: 5, H0328: 5, H0030: 5, L0773: 5, L0665: 5, L0749: 5, H0713: 4, T0039: 4, S0280: 4, H0012: 4, H0038: 4, L0794: 4, L0774: 4, L0775: 4, L0805: 4, H0624: 3, H0170: 3, H0171: 3, S0356: 3, H0329: 3, S0046: 3, H0331: 3, H0575: 3, L0471: 3, H0620: 3,		

S0250: 3, H0032: 3, H0591: 3, L0598: 3, L0803: 3, L0653: 3, L0657: 3, H0670: 3, S0406: 3, H0555: 3, L0780: 3, L0605: 3, H0667: 3, H0717: 2, T0049: 2, S0212: 2, H0661: 2, S0376: 2, S0007: 2, H0208: 2, S0476: 2, H0645: 2, H0411: 2, H0437: 2, H0550: 2, H0586: 2, H0333: 2, H0599: 2, H0042: 2, H0545: 2, H0123: 2, H0105: 2, H0014: 2, H0051: 2, H0375: 2, L0142: 2, H0598: 2, H0135: 2, H0040: 2, S0372: 2, L0520: 2, L0640: 2, L0769: 2, L5566: 2, L0772: 2, L0646: 2, L0771: 2, L0363: 2, L0768: 2, L0375: 2, L0654: 2, L0776: 2, L0809: 2, L0438: 2, H0547: 2, H0519: 2, L0602: 2, L0743: 2, L0744: 2, L0439: 2,
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HCONL67	HCONL67R	1097	389 - 631	3272	Leu-2 to Leu-9.	L0764: 1, L5564: 1, L0804: 1, L0378: 1, L0806: 1, L0807: 1, L0526: 1, L0787: 1, L0788: 1, L0791: 1, L0793: 1, S0374: 1, H0691: 1, T0068: 1, H0690: 1, H0682: 1, H0684: 1, H0658: 1, H0672: 1, H0651: 1, H0518: 1, H0696: 1, S0146: 1, S0037: 1, S3014: 1, S0027: 1, S0028: 1, S0206: 1, S0032: 1, H0445: 1, L0589: 1, L0590: 1, L0485: 1, L0604: 1, H0668: 1, H0653: 1, S0242: 1, S0194: 1 and H0008: 1.		
						L0748: 50, L0754: 42, L0731: 31, H0644: 30, L0747: 29, H0551: 22, S0418: 21, L0659: 17, H0619: 15, L0663: 14, L0666: 13, S0360: 10, H0622: 10, H0031: 10, H0553: 10, L0662: 10, S0126: 10, L0757: 10, L0603: 10, S0420: 8.		

				H0486: 8, H0013: 8, H0050: 8, H0623: 8, L0717: 7, H0144: 7, L0770: 6, L0750: 6, H0427: 5, H0024: 5, H0328: 5, H0030: 5, L0773: 5, L0665: 5, L0749: 5, H0713: 4, T0039: 4, S0280: 4, H0012: 4, H0038: 4, L0794: 4, L0774: 4, L0775: 4, L0805: 4, H0624: 3, H0170: 3, H0171: 3, S0356: 3, H0329: 3, S0046: 3, H0331: 3, H0575: 3, L0471: 3, H0620: 3, S0250: 3, H0032: 3, H0591: 3, L0598: 3, L0803: 3, L0653: 3, L0657: 3, H0670: 3, S0406: 3, H0555: 3, L0780: 3, L0605: 3, H0667: 3, H0717: 2, T0049: 2, S0212: 2, H0661: 2, S0376: 2, S0007: 2, H0208: 2, S0476: 2, H0645: 2, H0411: 2, H0437: 2, H0550: 2, H0586: 2,	
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							S0028: 1, S0206: 1, S0032: 1, H0445: 1, L0589: 1, L0590: 1, L0485: 1, L0604: 1, H0668: 1, H0653: 1, S0242: 1, S0194: 1 and H0008: 1.			
HCONN92	HCONN92R	1098	205 - 384	3273						
HCONO17	HCONO17R	1099	1 - 135	3274						
HCONO25	HCONO25R	1100	218 - 610	3275			L0803: 15, L0766: 7, L0748: 6, L0809: 5, L0749: 5, L0804: 4, L0776: 4, L0754: 4, L0752: 4, L0805: 3, L0755: 3, S0438: 2, L0800: 2, L0662: 2, L0740: 2, L0751: 2, L0747: 2, L0750: 2, L0757: 2, L0615: 1, H0556: 1, S0278: 1, T0039: 1, H0318: 1, H0597: 1, H0009: 1, H0510: 1, H0553: 1, H0063: 1, H0509: 1, H0647: 1, S0144: 1, L0763: 1, L0770: 1, L0764: 1, L0768: 1, L0794: 1, L0775: 1, L0653: 1, L0661: 1, L0518: 1, L0790: 1,			

							H0519: 1, H0659: 1, H0670: 1, S0328: 1, H0696: 1, L0439: 1, L0581: 1, S0242: 1 and S0276: 1.			
HCONP44	HCONP44R	1101	3 - 413	3276		Val-1 to Ile-10, Met-32 to Asn-42.				
HCONQ67	HCONQ67R	1102	1 - 669	3277		Gly-7 to Gly-21, Pro-145 to Arg-152, Ala-178 to Lys-183.				
HCONQ71	HCONQ71R	1103	312 - 488	3278						
HCONR31	HCONR31R	1104	3 - 380	3279		Gly-18 to Gln-39, Leu-49 to His-60, Glu-67 to Asp-92.				
HCONU03	HCONU03R	1105	3 - 575	3280						
HCONW62	HCONW62R	1106	1 - 429	3281		Thr-76 to Arg-92, Pro-113 to Ala-118.				
HCONW74	HCONW74R	1107	85 - 234	3282		Pro-15 to Tyr-21.				
HCONW90	HCONW90R	1108	2 - 151	3283		Asn-1 to Pro-10.				
HCONW95	HCONW95R	1109	44 - 457	3284						
HCOOB60	HCOOB60R	1110	101 - 352	3285						
HCOOG32	HCOOG32R	1111	2 - 334	3286						
HCOOG37	HCOOG37R	1112	3 - 482	3287						
HCOOH93	HCOOH93R	1113	1 - 426	3288						
HCOOI71	HCOOI71R	1114	1 - 354	3289		Ala-15 to Gln-25, Gly-42 to Asp-51, Gln-82 to Lys-87, Lys-113 to Lys-118.				
HCOOI79	HCOOI79R	1115	209 - 625	3290						

HCOOM18	HCOOM18R	1116	2 - 694	3291	Lys-71 to Glu-76, Ala-95 to Asp-100, Asp-113 to Ser-134.			
HCOOM73	HCOOM73R	1117	2 - 661	3292	Leu-33 to Lys-39.	H0012: 5, H0620: 4, H0622: 4, L0803: 4, H0670: 4, L0751: 4, L0770: 3, S6024: 2, S0222: 2, L0791: 2, L0731: 2, H0549: 1, H0438: 1, T0023: 1, H0477: 1, H0647: 1, L0648: 1, L0774: 1, L0659: 1, L0664: 1, L0665: 1, H0659: 1, H0658: 1, H0648: 1, H0651: 1, S0380: 1, L0748: 1, L0439: 1, L0756: 1, L0779: 1 and L0755: 1.		
HCOOQ46	HCOOQ46R	1118	2 - 166	3293				
HCOOS39	HCOOS39R	1119	2 - 229	3294				
HCOOT43	HCOOT43R	1120	2 - 439	3295		L0743: 19, L0731: 13, L0744: 12, L0748: 11, L0666: 9, L0751: 9, L0664: 8, H0144: 8, H0333: 7, H0617: 7, L0769: 7, L0662: 7, S0022: 6, H0616: 6, H0087: 6, L0483: 5, H0181: 5, L0517: 5,		

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HCOOT68	HCOOT68R	1121	147 - 488	3296	Arg-13 to Val-20.	L0650: 1, L0774: 1, L0376: 1, L0806: 1, L0652: 1, L0653: 1, L0606: 1, L0629: 1, L0659: 1, L0636: 1, L0542: 1, L0526: 1, L0518: 1, L0782: 1, L0783: 1, H0689: 1, H0690: 1, H0682: 1, H0683: 1, H0659: 1, H0660: 1, S0328: 1, S0330: 1, S0380: 1, H0522: 1, S0004: 1, H0555: 1, L0611: 1, S3014: 1, S0206: 1, L0755: 1, L0758: 1, H0444: 1, L0587: 1, L0589: 1, L0605: 1, L0591: 1, L0608: 1, L0361: 1, L0366: 1, H0665: 1, S0242: 1, S0194: 1, H0543: 1, H0423: 1, S0460: 1, S0456: 1 and H0506: 1.		
						L0748: 20, H0251: 11, L0771: 11, L0740: 11, L0731: 11, L0757: 11, L0752: 10, S0126: 8, H0144: 7, L0596: 6, H0013: 5, L0665: 5,		

L0747: 5, H0542: 5, H0423: 5, H0624: 4, T0002: 4, H0486: 4, H0031: 4, H0169: 4, H0616: 4, L0770: 4, L0776: 4, L0666: 4, S0152: 4, L0754: 4, H0657: 3, H0663: 3, S0418: 3, S0358: 3, S0360: 3, H0038: 3, L0764: 3, L0648: 3, L0775: 3, L0655: 3, L0749: 3, L0750: 3, L0755: 3, S0026: 3, H0422: 3, H0170: 2, H0171: 2, H0341: 2, H0402: 2, H0638: 2, S0045: 2, S0046: 2, H0156: 2, S0182: 2, H0318: 2, L0471: 2, S0003: 2, H0168: 2, H0674: 2, H0090: 2, H0063: 2, H0412: 2, H0413: 2, H0100: 2, S0440: 2, L0769: 2, L0372: 2, L0662: 2, L0659: 2, H0547: 2, H0659: 2, S0328: 2, S0380: 2, H0521: 2, L0756: 2, L0758: 2,
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				L0759: 2, H0445: 2, L0605: 2, L0604: 2, L0595: 2, L0362: 2, S0194: 2, H0543: 2, S0040: 1, S0134: 1, H0583: 1, H0656: 1, S0116: 1, H0484: 1, H0177: 1, S0420: 1, L0005: 1, S0354: 1, S0408: 1, L0717: 1, H0369: 1, H0550: 1, S0222: 1, H0574: 1, H0632: 1, T0060: 1, H0250: 1, H0108: 1, H0575: 1, H0037: 1, T0048: 1, H0309: 1, H0596: 1, T0115: 1, H0597: 1, H0327: 1, H0046: 1, S0051: 1, H0083: 1, H0061: 1, S6028: 1, H0288: 1, H0292: 1, H0039: 1, H0553: 1, H0644: 1, H0111: 1, H0032: 1, H0383: 1, H0316: 1, H0598: 1, H0087: 1, H0059: 1, T0042: 1, H0560: 1, S0438: 1, H0509: 1, H0132: 1, H0641: 1, H0633: 1,			
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HCOOU56	HCOOU56R	1122	3 - 257	3297			S0210: 1, H0529: 1, L0520: 1, L0763: 1, L0637: 1, L0800: 1, L0765: 1, L0773: 1, L0521: 1, L0768: 1, L0364: 1, L0766: 1, L0806: 1, L0653: 1, L0657: 1, L0518: 1, L0783: 1, L0383: 1, L0663: 1, L0664: 1, H0593: 1, H0689: 1, H0682: 1, H0670: 1, H0666: 1, H0648: 1, H0672: 1, L0355: 1, H0522: 1, S0013: 1, H0696: 1, H0134: 1, H0214: 1, S0406: 1, L0609: 1, S3014: 1, S0206: 1, L0744: 1, L0751: 1, H0343: 1, L0591: 1, L0601: 1, S0242: 1, L0697: 1, S0424: 1 and S0446: 1.			
HCOOW72	HCOOW72R	1123	58 - 534	3298	Ala-20 to Asp-25, Asp-38 to Ser-59, Asn-103 to Glu-109, Pro-111 to Ser-119.					
HCOOX01	HCOOX01R A	1124	153 - 311	3299						

HCOOX07	HCOOX07R	1125	236 - 367	3300	His-15 to Gly-29.	L0751: 14, L0659: 11, H0695: 10, L0666: 10, L0757: 9, L0743: 8, L0779: 8, H0581: 6, L0769: 6, L0748: 6, L0758: 6, H0556: 5, H0402: 5, S0360: 5, H0014: 5, H0271: 5, L0761: 5, L0667: 5, L0774: 5, L0653: 5, S0406: 5, H0436: 5, S0358: 4, S0132: 4, L0763: 4, L0776: 4, L0809: 4, L0664: 4, S0126: 4, L0731: 4, S0280: 3, H0150: 3, H0687: 3, L0662: 3, L0775: 3, L0375: 3, H0670: 3, L0749: 3, S0434: 3, H0295: 2, H0650: 2, S0408: 2, H0580: 2, H0411: 2, H0586: 2, H0559: 2, H0545: 2, H0050: 2, S0051: 2, H0083: 2, H0416: 2, H0688: 2, H0617: 2, H0063: 2, H0551: 2, S0344: 2, L0643: 2, L0764: 2, L0766: 2, L0649: 2,		
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HCOOX48	HCOOX48R	1126	203 - 349	3301	Leu-13 to Gly-21, Ser-27 to Ser-42.							
HCOOY43	HCOOY43R	1127	1 - 315	3302	Asn-67 to Arg-73, Thr-96 to Gly-102.							
HCOPA60	HCOPA60RA	1128	3 - 446	3303	Ala-1 to Leu-7, Gly-14 to Arg-19, Tyr-34 to Asp-41.	L0748: 4, L0747: 4, L0779: 4, H0620: 3, L0770: 3, L0774: 3, L0622: 2, S0280: 2,						

HCOPB03	HCOPB03R	1129	2 - 598	3304	Asp-28 to Glu-34, Ala-38 to Ile-44, Ala-64 to Arg-77, Gly-82 to Ala-88.	H0271: 2, H0290: 2, L0769: 2, L0800: 2, L0794: 2, L0766: 2, L0775: 2, H0547: 2, S0126: 2, S0380: 2, L0752: 2, L0758: 2, L0596: 2, H0295: 1, S0212: 1, H0125: 1, H0559: 1, T0060: 1, T0082: 1, H0150: 1, N0006: 1, H0024: 1, S0022: 1, H0688: 1, H0428: 1, T0023: 1, H0033: 1, H0424: 1, H0213: 1, H0412: 1, H0413: 1, H0633: 1, S0344: 1, L0646: 1, L0768: 1, L0804: 1, L0656: 1, L0783: 1, L0809: 1, L0788: 1, L0666: 1, L0663: 1, L0438: 1, H0670: 1, H0660: 1, H0522: 1, S0037: 1, L0439: 1, L0750: 1, L0759: 1, S0031: 1 and S0196: 1.		
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HCOPC45	HCOPC45R	1130	3 - 89	3305					
HCOPD67	HCOPD67R	1131	26 - 541	3306	Phe-1 to Gly-7.				
HCOPE27	HCOPE27R	1132	2 - 400	3307	Arg-37 to Gly-44, Asp-76 to Gly-87.	L0751: 16, L0601: 10, L0659: 4, H0670: 4, L0665: 3, S0376: 2, H0494: 2, L0758: 2, L0596: 2, H0587: 1, H0646: 1, L0372: 1, L0646: 1, L0662: 1, L0552: 1, L0376: 1, L0806: 1, L0664: 1, H0682: 1, H0435: 1, H0672: 1 and L0744: 1.			
HCOPH51	HCOPH51RA	1133	243 - 398	3308					
HCOP109	HCOP109RA	1134	2 - 328	3309					
HCOPM42	HCOPM42R	1135	1 - 90	3310					
HCOPO34	HCOPO34R	1136	140 - 361	3311	Thr-6 to Cys-16, Tyr-40 to Lys-47, Ser-61 to Gln-66.				
HCOPO36	HCOPO36R	1137	143 - 601	3312	Arg-1 to Ser-7, Ser-25 to Phe-32, Leu-39 to Ser-44, Arg-58 to Gly-63, Ser-140 to Thr-145.	L0665: 3, H0682: 2, H0435: 2, L0751: 2, H0663: 1, L0021: 1, H0647: 1, L0806: 1, L0664: 1, H0683: 1, H0670: 1 and H0660: 1.			
HCOPO88	HCOPO88R	1138	1 - 267	3313	Pro-7 to Phe-15, Gly-26 to Arg-31, Asp-35 to Glu-43.				
HCOPV41	HCOPV41R	1139	3 - 620	3314	Arg-4 to Lys-9,				

					Asp-61 to Asn-67, Thr-69 to Lys-75, Leu-105 to Ala-112, Gly-126 to His-134, Gly-172 to Glu-179, Pro-186 to Asn-199.				
HCOPZ15	HCOPZ15R	1140	1 - 582	3315		AR096: 11, AR061: 10, AR104: 5, AR060: 5, AR089: 5, AR055: 4 L0774: 3, S0358: 2, H0509: 2, L0809: 2, H0670: 2, L0745: 2, L0779: 2, L0752: 2, H0449: 1, T0048: 1, H0355: 1, H0428: 1, H0617: 1, S0438: 1, H0529: 1, L0770: 1, L0761: 1, L0773: 1, L0803: 1, L0804: 1, L0375: 1, L0659: 1, L0382: 1, L0791: 1, S0328: 1, H0134: 1, L0743: 1, L0748: 1, L0747: 1 and L0756: 1.			
HCOQA38	HCOQA38R	1141	41 - 271	3316	His-39 to Asn-45, Cys-68 to Cys-75.				
HCOQA80	HCOQA80R	1142	1 - 192	3317	His-37 to Asp-42.				
HCOQB12	HCOQB12R	1143	1 - 582	3318	Lys-6 to Asp-11, Gly-22 to Phe-27,				



HCOQB56	HCOQB56R	1144	1 - 66	3319	His-54 to Gly-63, Asp-73 to Lys-79.	H0670: 2 and H0589: 1.			
HCOQB58	HCOQB58R	1145	281 - 466	3320	Lys-1 to Gln-7.				
HCOQC71	HCOQC71R	1146	3 - 248	3321	Lys-1 to Asp-21, Lys-61 to Leu-71.	L0794: 7, L0803: 5, L0809: 5, L0666: 5, L0751: 5, L0759: 3, H0674: 2, L0768: 2, L0774: 2, L0663: 2, L0779: 2, L0758: 2, S0360: 1, H0455: 1, H0618: 1, H0263: 1, H0169: 1, H0616: 1, H0059: 1, S0112: 1, L0451: 1, L0770: 1, L0639: 1, L0648: 1, L0804: 1, L0776: 1, L0783: 1, L0789: 1, L0790: 1, L0791: 1, L0664: 1, L0665: 1, H0670: 1, H0672: 1 and L0608: 1.			
HCOQD29	HCOQD29R	1147	1 - 570	3322	Glu-66 to Arg-72, Pro-148 to Ser-154.				
HCOQD38	HCOQD38R	1148	106 - 639	3323	Met-3 to Ser-16, Cys-25 to Asp-35, Glu-42 to Lys-52, Ser-55 to Glu-63, Glu-74 to Thr-79.				

HCOQD49	HCOQD49R	1149	8 - 196	3324	Ile-81 to Ser-102, Ser-109 to Glu-118, Thr-138 to Glu-158.  Asp-39 to Ser-46.	S0358: 15, S0003: 13, S0126: 11, L0754: 11, S0410: 10, H0599: 9, S0440: 9, H0529: 9, L0748: 9, H0341: 8, H0373: 8, H0591: 8, L0588: 8, L0362: 8, H0661: 7, S0007: 7, L0471: 7, L0731: 7, H0170: 6, T0042: 6, S0374: 6, H0624: 5, S0408: 5, H0013: 5, H0046: 5, H0031: 5, H0551: 5, H0144: 5, L0752: 5, H0657: 4, S0346: 4, S0214: 4, H0039: 4, H0644: 4, H0616: 4, H0413: 4, H0494: 4, H0670: 4, S0404: 4, S3014: 4, L0740: 4, L0747: 4, L0750: 4, L0753: 4, L0758: 4, L0581: 4, S0424: 4, S0040: 3, H0663: 3, H0638: 3, S0356: 3, S0360: 3, S0222: 3, H0497: 3,		
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HCOQF77	HCOQF77R	1150	1 - 357	3325						
HCOQG37	HCOQG37R	1151	3 - 395	3326	Pro-26 to Asn-34, Pro-50 to Pro-56, Arg-64 to Val-69, Val-97 to Lys-103.					
HCOQG47	HCOQG47R	1152	208 - 522	3327						
HCOQH46	HCOQH46R	1153	2 - 583	3328						
HCOQI14	HCOQI14R	1154	11 - 187	3329	Arg-10 to Ser-16.		L0777: 9, L0766: 5, L0748: 3, L0439: 3, H0599: 2, L0774: 2, L0747: 2, L0749: 2, L0779: 2, L0731: 2, H0305: 1, L0534: 1, H0675: 1, S0046: 1, H0004: 1, H0083: 1, L0456: 1, T0042: 1, S0344: 1, S0002: 1, L0369: 1, L0770: 1, L0773: 1, L0803: 1, L0776: 1, L0809: 1, L0791: 1, H0658: 1, H0670: 1, S3012: 1, L0756: 1, L0780: 1 and L0759: 1.			
HCOQI67	HCOQI67R	1155	1 - 126	3330						

HCOQJ06	HCOQJ06R	1156	8 - 457	3331				
HCOQJ07	HCOQJ07R	1157	3 - 707	3332				
HCOQJ36	HCOQJ36R	1158	149 - 328	3333			L0752: 4, H0156: 2, L0803: 2, L0776: 2, H0648: 2, L0439: 2, H0431: 1, H0575: 1, H0014: 1, T0023: 1, H0598: 1, H0591: 1, H0059: 1, L0772: 1, L0372: 1, L0764: 1, L0771: 1, L0773: 1, L0804: 1, L0774: 1, L0775: 1, L0375: 1, L0805: 1, L0629: 1, L0789: 1, L0665: 1, L0438: 1, H0658: 1, H0670: 1 and L0779: 1.	
HCOQJ79	HCOQJ79R	1159	1 - 471	3334				
HCOQK86	HCOQK86R	1160	1 - 519	3335				
HCOQL87	HCOQL87R	1161	3 - 398	3336				
HCOQM87	HCOQM87R	1162	3 - 143	3337	Arg-1 to Val-23.			
HCOQO79	HCOQO79R	1163	2 - 613	3338	Phe-94 to Glu-102, Gln-133 to Thr-140.			
HCOQP32	HCOQP32R	1164	3 - 149	3339				
HCOQS11	HCOQS11R	1165	75 - 443	3340				
HCOQU15	HCOQU15R	1166	2 - 430	3341	Asn-29 to Gly-38, Glu-50 to Gln-58.		L0665: 4, L0743: 4, H0486: 3, H0123: 3, H0024: 3, L0528: 3, L0748: 3, H0170: 2,	

HCOQU92	HCOQU92R	1167	46 - 315	3342	Ile-3 to Arg-8, Pro-17 to Ser-22.	H0050: 2, L0769: 2, H0670: 2, L0747: 2, L0750: 2, H0171: 1, H0556: 1, H0583: 1, H0657: 1, S0212: 1, H0208: 1, H0619: 1, S0278: 1, H0550: 1, S0222: 1, H0438: 1, H0613: 1, H0331: 1, H0013: 1, H0635: 1, H0002: 1, S0474: 1, H0581: 1, H0009: 1, L0157: 1, H0012: 1, S0025: 1, H0239: 1, H0375: 1, H0266: 1, H0598: 1, H0135: 1, H0163: 1, H0087: 1, H0551: 1, H0494: 1, S0210: 1, L0640: 1, L0763: 1, L0646: 1, L0387: 1, L0766: 1, L0805: 1, L0776: 1, L0655: 1, L0657: 1, H0144: 1, H0520: 1, H0547: 1, H0519: 1, H0689: 1, H0658: 1, H0576: 1, L0779: 1 and L0759: 1.		
HCOQU92	HCOQU92R	1167	46 - 315	3342	Ile-3 to Arg-8, Pro-17 to Ser-22.	L0805: 7, L0776: 4, L0748: 4, H0545: 3.		



Ser-28 to Ser-34, Thr-45 to Thr-56, Ser-58 to Thr-63, Tyr-74 to Thr-79.	S0438: 3, H0641: 3, L0588: 3, L0592: 3, T0049: 2, H0549: 2, H0431: 2, H0486: 2, L0471: 2, H0169: 2, S0372: 2, L0520: 2, L0553: 2, L0768: 2, L0649: 2, L0655: 2, L0527: 2, L0783: 2, L0532: 2, H0144: 2, H0682: 2, H0670: 2, S0378: 2, S0406: 2, L0750: 2, S0026: 2, H0542: 2, H0170: 1, H0716: 1, S0212: 1, H0638: 1, H0125: 1, S0444: 1, H0580: 1, H0393: 1, H0411: 1, H0587: 1, L0586: 1, T0114: 1, H0390: 1, T0048: 1, H0318: 1, H0596: 1, H0620: 1, H0375: 1, T0006: 1, H0606: 1, H0429: 1, S0294: 1, H0386: 1, L0770: 1, L0769: 1, L3904: 1, L0374: 1, L0773: 1, L0662: 1, L0766: 1, L0803: 1, L0774: 1, L0526: 1.
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HCOQV27	HCOQV27R	1168	3 - 239	3343	Glu-1 to Lys-17, Val-25 to Asn-30, Phe-36 to Pro-42.	L0809: 1, L0793: 1, L0664: 1, S0053: 1, H0689: 1, H0684: 1, H0659: 1, H0658: 1, H0648: 1, S0330: 1, H0521: 1, H0522: 1, S0404: 1, L0749: 1, L0780: 1, L0731: 1 and H0543: 1.			
						H0250: 35, L0770: 9, H0635: 6, L0483: 6, L0766: 6, H0521: 6, L0745: 6, S0003: 5, H0623: 5, L0776: 5, H0445: 5, S0408: 4, H0411: 4, H0634: 4, H0641: 4, L0598: 4, H0650: 3, H0656: 3, S0360: 3, H0574: 3, H0486: 3, H0373: 3, H0687: 3, H0591: 3, H0040: 3, L0662: 3, L0775: 3, L0665: 3, S0216: 3, L0748: 3, L0777: 3, S0134: 2, H0663: 2, S0007: 2, H0550: 2, H0013: 2, H0581: 2, H0510: 2, S0214: 2, H0615: 2, H0674: 2, S0440: 2,			

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HCOQX38	HCOQX38R	1169	23 - 439	3344	Trp-2 to Gly-7.						
HCOQY33	HCOQY33R	1170	1 - 321	3345							
HCOQY43	HCOQY43R	1171	271 - 510	3346		S0282: 1, L0021: 1, S0438: 1, L0775: 1, L0666: 1, L0663: 1,					

									H0659: 1, H0670: 1 and L0758: 1.			
HCOQZ02	HCOQZ02R	1172	387 - 473	3347					Lys-1 to Lys-13.			
HCOQZ86	HCOQZ86R	1173	1 - 507	3348								
HCORA95	HCORA95R	1174	2 - 136	3349					Pro-1 to Phe-15.			
HCORB20	HCORB20R	1175	14 - 292	3350					Val-1 to Gly-9.			
HCORB43	HCORB43R	1176	1 - 303	3351								
HCORB66	HCORB66R	1177	3 - 611	3352					Asn-1 to Gly-8.			
HCORI18	HCORI18R	1178	105 - 317	3353					Asn-7 to Pro-33, Gly-40 to Gly-46, Tyr-49 to Tyr-71.	L0770: 3, H0685: 1, H0581: 1, H0553: 1, S0150: 1 and H0670: 1.		
HCORI25	HCORI25R	1179	3 - 419	3354					Leu-35 to Tyr-40.	L0754: 14, H0052: 13, L0748: 13, H0556: 12, L0591: 12, L0755: 11, L0752: 10, L0731: 9, L0601: 9, L0439: 8, L0777: 8, L0596: 8, H0046: 7, H0521: 7, L0758: 7, H0599: 6, H0622: 6, S0002: 6, L0646: 6, L0593: 6, H0265: 5, S0474: 5, L0776: 5, L0666: 5, L0741: 5, L0747: 5, S0026: 5, H0543: 5, H0619: 4, S0222: 4, H0013: 4, H0590: 4, H0544: 4, H0620: 4, H0124: 4, H0038: 4,		

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HCQCR82	HCQCR82R	1180	48 - 206	3355	Glu-9 to Gly-17.					
HCRME42	HCRME42R	1181	1 - 537	3356	Lys-14 to Gly-26, Glu-33 to Arg-44, Pro-64 to Pro-69, Pro-79 to Asn-88, Thr-109 to Pro-123.					
HDABR53	HDABR53R	1182	2 - 463	3357						
HDLBE03	HDLBE03R	1183	158 - 325	3358	Ala-17 to Asn-23.					
HDPFI26	HDPFI26R	1184	37 - 303	3359	Ser-1 to Thr-8,					

HDTAQ74	HDTAQ74R	1185	133 - 414	3360	Glu-17 to Ala-32, Arg-39 to Trp-47.	L0759: 10, L0774: 3, H0648: 3, H0686: 2, S0360: 2, L0622: 2, H0486: 2, L0521: 2, L0775: 2, H0659: 2, S0328: 2, L0779: 2, L0755: 2, H0341: 1, S0354: 1, S0358: 1, H0351: 1, S0222: 1, L0021: 1, H0025: 1, L0105: 1, T0115: 1, H0545: 1, H0571: 1, H0050: 1, L0471: 1, S6028: 1, S0003: 1, H0031: 1, H0316: 1, H0038: 1, H0087: 1, H0494: 1, H0509: 1, S0142: 1, L0520: 1, L0769: 1, L0638: 1, L0772: 1, L0794: 1, L0803: 1, L0804: 1, L0382: 1, L0367: 1, L0665: 1, S0374: 1, H0690: 1, H0684: 1, S0044: 1, S3012: 1, S0027: 1, L0744: 1, L0777: 1, L0758: 1, L0604: 1, S0026: 1 and		
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HDTBP08	HDTBP08R	1186	231 - 431	3361	Leu-21 to Ala-27, Pro-48 to Gly-55.	S0276: 1.		
HDTDA21	HDTDA21R	1187	207 - 431	3362	Ala-14 to Leu-20.			
HDTDB88	HDTDB88R	1188	102 - 215	3363	Tyr-25 to Phe-32.			
HDTJR38	HDTJR38R	1189	179 - 364	3364		L0748: 50, L0754: 42, L0731: 31, H0644: 30, L0747: 29, H0551: 22, S0418: 21, L0659: 17, H0619: 15, L0663: 14, L0666: 13, S0360: 10, H0622: 10, H0031: 10, H0553: 10, L0662: 10, S0126: 10, L0757: 10, L0603: 10, S0420: 8, H0486: 8, H0013: 8, H0050: 8, H0623: 8, L0717: 7, H0144: 7, L0770: 6, L0750: 6, H0427: 5, H0024: 5, H0328: 5, H0030: 5, L0773: 5, L0665: 5, L0749: 5, H0713: 4, T0039: 4, S0280: 4, H0012: 4, H0038: 4, L0794: 4, L0774: 4, L0775: 4, L0805: 4, H0624: 3, H0170: 3, H0171: 3, S0356: 3, H0329: 3, S0046: 3,		

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HE8QX44	HE8QX44R	1190	1 - 288	3365	Thr-8 to Thr-22, Phe-42 to Lys-51, Arg-60 to Lys-69.					
HE9QU94	HE9QU94R	1191	3 - 170	3366	Arg-1 to Cys-23, Trp-25 to Ser-35.					
HEAHF02	HEAHF02R	1192	32 - 376	3367	Ser-10 to Thr-34, Ser-37 to Asn-89.					
HEEAY40	HEEAY40R	1193	3 - 128	3368	Thr-15 to Ser-26.					

HEGAF68	HEGAF68R	1194	45 - 221	3369	Glu-9 to Gly-17.	H0457: 14, L0751: 13,		
HEOSP11	HEOSP11R	1195	96 - 395	3370	Pro-13 to Leu-25.	H0617: 8, L0761: 7, L0666: 6, L0664: 6, L0665: 6, H0593: 6, L0662: 5, L0748: 5, H0052: 4, H0014: 4, H0529: 4, L0655: 4, L0809: 4, L0663: 4, H0436: 4, L0747: 4, L0758: 4, H0592: 3, H0587: 3, H0581: 3, L0763: 3, L0769: 3, L0659: 3, H0539: 3, L0779: 3, S0434: 3, H0506: 3, H0295: 2, H0650: 2, H0657: 2, L0005: 2, S0356: 2, S0442: 2, S0354: 2, S0360: 2, H0580: 2, H0733: 2, H0553: 2, H0135: 2, H0560: 2, H0625: 2, H0647: 2, L0374: 2, L0657: 2, L0647: 2, H0682: 2, H0672: 2, H0521: 2, S0028: 2, L0743: 2, L0749: 2, L0752: 2, L0755: 2, L0759: 2, L0593: 2, S0446: 2,		

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HFABK01	HFABK01R	1196	26 - 112	3371	Asn-4 to Tyr-9.							
HFADS75	HFADS75R	1197	102 - 365	3372	Ala-16 to Arg-26, Pro-68 to Gly-78.							
HFIBG63	HFIBG63R	1198	2 - 409	3373								
HFJJB15	HFJJB15R	1199	32 - 151	3374								
HFIXK57	HFIXK57R	1200	2 - 211	3375		H0594: 18, L0777: 10, L0766: 6, H0595: 6, H0170: 5, H0373: 5,						



HFIZQ64	HFIZQ64R	1201	18 - 137	3376	Glu-27 to Leu-36.	L0761: 1, L0667: 1, L0630: 1, L0372: 1, L0764: 1, L0521: 1, L0533: 1, L0775: 1, L0651: 1, L0806: 1, L0655: 1, L0656: 1, S0374: 1, H0547: 1, S0328: 1, H0539: 1, H0696: 1, L0741: 1, L0744: 1, L0740: 1, L0754: 1, L0747: 1, L0750: 1, L0753: 1, L0759: 1, S0031: 1, L0485: 1, L0362: 1, S0242: 1, H0543: 1 and S0398: 1.		
HFKKK36	HFKKK36R	1202	3 - 86	3377	Pro-3 to Tyr-22.			
HFPEC93	HFPEC93R	1203	75 - 233	3378	Lys-17 to Thr-23.			
HFPIX37	HFPIX37R	1204	1 - 270	3379	Pro-75 to Cys-89.	AR089: 4, AR096: 3, AR033: 3, AR060: 3, AR061: 1, AR104: 1, AR055: 1, AR053: 0, AR039: 0, AR052: 0 H0583: 1, H0662: 1, S0222: 1, S0049: 1, H0272: 1, H0670: 1, H0521: 1, H0555: 1 and S0436: 1.		
HFTDK36	HFTDK36R	1205	18 - 314	3380	Cys-5 to Pro-21,			

						His-66 to Leu-77, Gln-80 to Ala-88, Tyr-92 to Ser-98.				
HFVIB28	HFVIB28R	1206	11 - 250	3381						
HFVGR60	HFVGR60R	1207	353 - 57	3382			S0001: 1			
HHAUD07	HHAUD07R	1208	304 - 426	3383		Val-24 to Leu-31.				
HHBFO21	HHBFO21R	1209	54 - 230	3384						
HHEVG50	HHEVG50R	1210	1 - 474	3385						
HHFGQ65	HHFGQ65RA	1211	53 - 277	3386		Arg-2 to Ser-7.				
HHFOE48	HHFOE48RP 00B	1212	181 - 426	3387			H0666: 13, S0358: 10, H0620: 10, L0750: 8, L0747: 7, L0731: 7, H0135: 5, L0659: 5, L0740: 5, L0757: 5, S0360: 4, H0123: 4, S0022: 4, L0666: 4, L0665: 4, S0028: 4, L0748: 4, L0777: 4, L0588: 4, H0265: 3, S0420: 3, H0208: 3, H0545: 3, H0046: 3, H0024: 3, H0284: 3, H0100: 3, L0650: 3, L0375: 3, L0382: 3, H0651: 3, L0755: 3, H0352: 3, S0278: 2, H0592: 2, H0333: 2, H0253: 2, H0544: 2, H0081: 2, H0012: 2, H0266: 2, H0286: 2,			

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HHSFG15	HHSFG15R	1213	3 - 62	3388										
HHSGP15	HHSGP15R	1214	77 - 142	3389										
HHSQG17	HHSQG17R	1215	112 - 270	3390										
HKBAD05	HKBAD05R	1216	49 - 315	3391	Pro-13 to Leu-18, Leu-37 to Arg-42, Lys-65 to Gly-77..									
HKZAD21	HKZAD21R	1217	244 - 405	3392										
HKZAE07	HKZAE07R	1218	1 - 138	3393	Val-40 to Tyr-46.	L0752: 11, L0662: 9,								

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HKZAG45	HKZAG45RA	1219	79 - 327	3394	Gly-1 to Val-7, Lys-15 to Leu-25, Pro-52 to Cys-57.			
HKZAI14	HKZAI14R	1220	3 - 368	3395	Lys-47 to Glu-52, Ala-71 to Asp-76, Asp-89 to Ser-110.			



HKZAI68	HKZAI68RA	1221	2 - 79	3396	Ser-9 to Ala-15.	S0474: 22, S0360: 13, H0556: 11, S0358: 11, L0747: 11, H0087: 10, S0126: 10, H0124: 9, S0410: 8, S0278: 8, H0024: 8, L0588: 8, S0206: 7, S0046: 6, L0731: 6, H0543: 6, H0265: 5, S0212: 5, S0045: 5, H0620: 5, H0594: 5, H0090: 5, H0063: 5, H0551: 5, T0042: 5, L0530: 5, H0144: 5, H0696: 5, S3014: 5, L0758: 5, S0192: 5, S0116: 4, H0549: 4, H0013: 4, H0530: 4, H0544: 4, H0081: 4, L0471: 4, H0012: 4, H0644: 4, H0163: 4, H0412: 4, H0100: 4, L0769: 4, L0771: 4, S0027: 4, L0740: 4, L0757: 4, L0605: 4, H0423: 4, H0624: 3, H0713: 3, S0418: 3, S0444: 3, S0408: 3, H0251: 3, H0545: 3, S0051: 3, H0083: 3, H0290: 3,		
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HKZAQ39	HKZAQ39R	1222	1 - 480	3397	Ser-1 to Lys-6, Asp-48 to Gly-55, Pro-68 to Phe-76, Pro-83 to Gly-89, Asn-100 to Asp-108, Glu-134 to Lys-141, Lys-144 to Asp-160.	H0668: 1, H0653: 1, H0542: 1, H0422: 1, S0042: 1, S0456: 1 and S0446: 1.		
HKZAR58	HKZAR58R	1223	3 - 266	3398	Met-41 to Gln-47.			
HKZAS59	HKZAS59R	1224	1 - 462	3399	Gln-54 to Leu-59, Glu-70 to Lys-76, Lys-147 to Ser-154.			
HKZAS64	HKZAS64R	1225	1 - 276	3400	Asp-1 to His-35, Pro-67 to His-75.			
HKZAS84	HKZAS84R	1226	2 - 103	3401	Ser-11 to Gly-18.	L0743: 19, L0731: 13, L0744: 12, L0748: 11, L0666: 9, L0751: 9, L0664: 8, H0144: 8, H0333: 7, H0617: 7, L0769: 7, L0662: 7, S0022: 6, H0616: 6, H0087: 6, L0483: 5, H0181: 5, L0517: 5, L0519: 5, L0754: 5, H0677: 5, S0051: 4, S0344: 4, L0663: 4,		

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HKZAV69	HKZAV69R	1227	2 - 412	3402	Val-6 to Lys-13, Tyr-23 to Asn-33, Lys-46 to Lys-51, Leu-75 to Asn-85, Asp-101 to Glu-106.					
HKZAV72	HKZAV72R	1228	2 - 163	3403	Cys-1 to Val-33, Ala-47 to Glu-54.					
HKZAX48	HKZAX48R	1229	137 - 361	3404		L0771: 3, L0021: 1, S0036: 1, H0689: 1 and				

HKZBB22	HKZBB22R	1230	2 - 520	3405	Arg-5 to Leu-11, Arg-32 to Lys-39, Thr-117 to Lys-122.	H0659: 1.		
HKZBS89	HKZBS89R	1231	1 - 381	3406	Gln-41 to His-48, Leu-55 to Gly-61, Pro-71 to Gly-79, Ala-104 to His-111.			
HLDQQ80	HLDQQ80R	1232	2 - 112	3407				
HLDXE19	HLDXE19R	1233	2 - 190	3408	Ala-2 to Lys-12.			
HLICD55	HLICD55R	1234	2 - 151	3409				
HLJBI32	HLJBI32R	1235	430 - 648	3410				
HLJBI37	HLJBI37R	1236	144 - 398	3411	Pro-77 to Lys-85.			
HLTHA47	HLTHA47R	1237	118 - 411	3412	Pro-82 to Lys-92.			
HLTJA50	HLTJA50R	1238	331 - 585	3413				
HLWAC95	HLWAC95R	1239	2 - 337	3414	Gln-20 to Ser-30.			
HLWDZ38	HLWDZ38R	1240	57 - 275	3415	Phe-45 to Ser-51.			
HLYDI57	HLYDI57R	1241	2 - 238	3416				
HMCFO19	HMCFO19R	1242	131 - 199	3417				
HMCIZ44	HMCIZ44R	1243	67 - 225	3418	Lys-17 to Thr-23.			
HMCJE25	HMCJE25R	1244	3 - 161	3419	Met-40 to Thr-52.			
HMSPB25	HMSPB25R	1245	324 - 145	3420				
HMVBB04	HMVBB04R	1246	136 - 276	3421	Lys-18 to Lys-30.			
HNAAE01	HNAAE01R	1247	2 - 196	3422	Lys-18 to Lys-30.			
HNBUP08	HNBUP08R	1248	127 - 474	3423	Pro-37 to Arg-46, Gln-75 to Gly-81, Pro-83 to Ser-89.	L0766: 5, L0751: 4, H0662: 2, H0253: 2, L0754: 2, L0750: 2, H0170: 1, H0587: 1, H0327: 1, H0688: 1,		

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HNBUY37	HNBUY37R	1249	2 - 289	3424			L0783: 4, S0280: 2, H0662: 1, H0550: 1, L0764: 1, L0662: 1, L0809: 1 and H0684: 1.			
HNBL57	HNBL57R	1250	179 - 541	3425						
HNHBC18	HNHBC18R	1251	1 - 279	3426		Glu-18 to Asp-35, Leu-52 to Gly-82.				
HNJFE85	HNJFE85R	1252	2 - 454	3427						
HNKCO29	HNKCO29R	1253	1 - 351	3428						
HNOAA22	HNOAA22R	1254	33 - 425	3429						
HNOAB27	HNOAB27R	1255	397 - 621	3430						
HNOAB28	HNOAB28R	1256	116 - 232	3431						
HNOAB88	HNOAB88R	1257	3 - 551	3432						
HNOAC04	HNOAC04R	1258	112 - 219	3433						
HNOAC15	HNOAC15R	1259	1 - 138	3434		Thr-1 to Ser-8, Pro-22 to Ser-27.				

HNOAE50	HNOAE50R	1260	89 - 577	3435	Thr-5 to Thr-14, Arg-20 to His-25, Arg-35 to Gly-40, Lys-58 to Arg-66, His-101 to Ser-107, Arg-111 to Lys-125, Leu-131 to Glu-140.			
HNOAE65	HNOAE65R	1261	2 - 535	3436	Pro-13 to Arg-21, Ser-42 to Phe-52, Lys-69 to Val-77, Ile-82 to Glu-87, Gly-93 to Gln-99, Val-118 to Asn-124, Lys-143 to Leu-152, Arg-154 to Glu-178.			
HNOAF22	HNOAF22R	1262	67 - 555	3437	Thr-5 to Thr-14, Arg-20 to His-25, Arg-35 to Gly-40, Lys-58 to Arg-66, His-101 to Ser-107, Arg-111 to Lys-125, Leu-131 to Arg-139, Arg-145 to Leu-153.			
HNOAF36	HNOAF36R	1263	2 - 145	3438	Arg-11 to Pro-17.	H0651: 2		
HNOAG34	HNOAG34R	1264	42 - 362	3439				
HNOAG94	HNOAG94R	1265	28 - 177	3440				
HNOAH67	HNOAH67R	1266	2 - 364	3441				
HNOAJ67	HNOAJ67R	1267	3 - 524	3442	Cys-2 to Gly-7.			
HNOAJ76	HNOAJ76R	1268	351 - 536	3443	Trp-6 to Glu-12.	H0134: 9, L0771: 8,		

L0748: 7, L0731: 6, L0591: 6, L0592: 6, L0770: 5, L0747: 5, L0749: 5, L0750: 5, H0136: 5, H0050: 4, H0625: 4, H0529: 4, L0769: 4, L0752: 4, L0758: 4, S0007: 3, S0045: 3, H0591: 3, H0561: 3, L0761: 3, L0645: 3, L0766: 3, L0655: 3, L0657: 3, L0666: 3, H0696: 3, H0436: 3, L0754: 3, L0756: 3, L0755: 3, H0543: 3, H0686: 2, H0125: 2, S0420: 2, S0376: 2, H0351: 2, H0581: 2, S0049: 2, H0052: 2, L0163: 2, H0428: 2, H0090: 2, H0040: 2, T0041: 2, H0494: 2, H0646: 2, L0763: 2, L0521: 2, L0776: 2, L0665: 2, H0144: 2, L0751: 2, L0745: 2, S0031: 2, L0581: 2, L0608: 2, H0170: 1, H0171: 1, H0394: 1, S0114: 1,					
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HNOAK11	HNOAK11R	1269	2 - 157	3444							
HNOAL51	HNOAL51R	1270	43 - 207	3445							
HNOAN85	HNOAN85R	1271	1 - 180	3446							
HNOAO59	HNOAO59R	1272	403 - 759	3447			Phe-74 to Pro-81.				
HNOAO71	HNOAO71R	1273	2 - 283	3448			Gly-1 to Leu-6, Pro-47 to Asp-52, Lys-63 to Glu-68.				
HNOAP21	HNOAP21R	1274	2 - 730	3449			Arg-9 to Arg-27, Gly-43 to Lys-48, Asp-61 to Ser-67, Ala-124 to Gly-130, Thr-146 to Lys-151, Phe-165 to Lys-170.				
HNOAQ24	HNOAQ24R	1275	2 - 664	3450				L0666: 10, H0510: 8, H0046: 6, H0617: 6, S0051: 4, H0135: 4, L0776: 4, L0439: 4, H0509: 3, L0665: 3, L0747: 3, H0445: 3, H0662: 2, S0420: 2, S0222: 2, H0574: 2, H0632: 2, H0427: 2,			

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HNOAQ47	HNOAQ47R	1276	1 - 642	3451	Ser-15 to Glu-23, Val-33 to Gly-40, Arg-47 to Pro-59, Ser-64 to Phe-70, Gly-92 to Lys-97, Lys-155 to Glu-166.				
HNOAR74	HNOAR74R	1277	122 - 400	3452	Pro-5 to Gly-11, Ser-20 to Ser-27.	L0794: 3, H0657: 2, L0766: 2, L0783: 2, L0789: 2, L0777: 2, L0759: 2, H0656: 1, S0116: 1, S0444: 1, S0360: 1, H0431: 1, S0010: 1, H0052: 1, H0596: 1, H0687: 1,			

HNOAR85	HNOAR85R	1278	278 - 562	3453	Ser-48 to Leu-56, Ser-70 to Val-75, Thr-83 to Ala-92.	H0634: 1, L0637: 1, L0648: 1, L0649: 1, L0804: 1, L0774: 1, L0776: 1, L0655: 1, L0606: 1, L0809: 1, H0144: 1, H0698: 1, L0438: 1, H0690: 1, H0660: 1, H0651: 1, L0747: 1, L0749: 1, L0758: 1, L0601: 1, S0242: 1, S0196: 1 and H0543: 1.			
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HNOAS07	HNOAS07R	1279	84 - 521	3454	Asn-80 to Gly-86, Glu-133 to Arg-138.	L0372: 1, L0764: 1, L0794: 1, L0649: 1, L0774: 1, L0775: 1, L0651: 1, L0807: 1, L0657: 1, L0789: 1, L0663: 1, H0519: 1, S0126: 1, H0684: 1, H0660: 1, H0666: 1, H0651: 1, H0518: 1, H0521: 1, S0028: 1, L0747: 1, L0777: 1, L0731: 1, S0194: 1, H0543: 1 and S0424: 1.		
HNOAS36	HNOAS36R	1280	3 - 254	3455	Leu-1 to Thr-7, Pro-39 to Ser-48, Trp-62 to Thr-68.			
HNOAS92	HNOAS92R	1281	2 - 385	3456	Pro-28 to Tyr-37, Leu-52 to Trp-57, Lys-109 to Leu-114.	H0457: 4, H0441: 3, H0393: 2, H0052: 2, H0620: 2, S0144: 2, H0521: 2, H0341: 1, S0358: 1, H0587: 1, H0632: 1, H0581: 1, H0309: 1, L0471: 1, H0622: 1, H0424: 1, H0213: 1, S0366: 1, H0163: 1, H0132: 1, S0142: 1, H0529: 1, H0547: 1, H0651: 1,		

HNOAT40	HNOAT40R	1282	96 - 317	3457			\$S014: 1, L0748: 1, L0777: 1 and L0599: 1.		
							L0794: 5, H0052: 4, H0457: 4, L0438: 4, H0651: 4, H0581: 3, L0777: 3, S0116: 2, S0007: 2, S0222: 2, S0049: 2, N0006: 2, L0163: 2, S6028: 2, L0351: 2, H0130: 2, L0638: 2, L0803: 2, L0805: 2, L0439: 2, L0754: 2, L0750: 2, L0755: 2, H0580: 1, H0645: 1, H0486: 1, H0013: 1, S0346: 1, H0009: 1, L0157: 1, H0567: 1, H0562: 1, H0050: 1, T0010: 1, H0606: 1, H0040: 1, H0063: 1, S0210: 1, L0761: 1, L0667: 1, L0774: 1, L0526: 1, L0532: 1, L0666: 1, L0665: 1, H0658: 1, H0521: 1, H0576: 1, L0753: 1, L0758: 1, L0759: 1, L0593: 1, L0366: 1, H0543: 1 and S0462: 1.		

HNOAT76	HNOAT76R	1283	2 - 187	3458	Lys-28 to Tyr-49, Arg-75 to Ala-83, Thr-90 to Ala-95, Arg-107 to Asp-114, Arg-137 to Ser-146.			
HNOAV91	HNOAV91R	1284	2 - 439	3459				
HNOBD17	HNOBD17R	1285	98 - 316	3460				
HNOBE83	HNOBE83R	1286	2 - 607	3461	Arg-1 to Gly-6, Lys-21 to Gly-29, Gln-51 to Gly-56, Pro-82 to Asp-90, Lys-175 to Ser-180.	L0747: 16, H0651: 10, H0561: 9, L0758: 8, H0046: 7, L0663: 7, S0026: 7, H0656: 6, H0393: 6, H0494: 6, L0774: 6, L0659: 6, L0665: 6, L0750: 6, L0731: 6, L0596: 6, H0543: 6, H0341: 5, H0575: 5, H0529: 5, L0662: 5, L0655: 5, H0539: 5, L0439: 5, L0752: 5, S0114: 4, H0657: 4, H0351: 4, H0581: 4, H0551: 4, H0560: 4, S0372: 4, L0769: 4, L0764: 4, L0776: 4, H0144: 4, H0660: 4, H0648: 4, H0672: 4, S0028: 4, L0749: 4, L0362: 4, H0580: 3, H0497: 3, H0486: 3, H0318: 3,		

				H0014: 3, H0373: 3, H0553: 3, H0038: 3, T0041: 3, S0002: 3, L0761: 3, L0664: 3, S0126: 3, H0658: 3, H0666: 3, S0380: 3, S0152: 3, H0521: 3, H0707: 3, L0589: 3, L0605: 3, L0599: 3, L0593: 3, H0423: 3, H0265: 2, H0661: 2, S0356: 2, S0358: 2, S0360: 2, S0408: 2, S0410: 2, S0046: 2, H0409: 2, S0280: 2, H0251: 2, L0738: 2, L0471: 2, H0057: 2, L0185: 2, H0594: 2, H0188: 2, S0003: 2, H0090: 2, H0412: 2, H0413: 2, S0440: 2, S0150: 2, S0144: 2, H0538: 2, L0763: 2, L0627: 2, L0775: 2, L0653: 2, H0519: 2, H0435: 2, H0659: 2, H0436: 2, H0478: 2, S0027: 2, L0756: 2, L0755: 2, L0759: 2, H0445: 2, L0588: 2,			
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HNOBV55	HNOBV55R A	1287	111 - 506	3462	Pro-14 to Gly-22, Ile-31 to Ala-36, Lys-53 to Ile-65.						
HNOCE63	HNOCE63R	1288	2 - 394	3463	Val-2 to Leu-20.						



HNOCL43	HNOCL43R	1289	2 - 193	3464			
HNOCN02	HNOCN02R	1290	1 - 624	3465			
HNOCN10	HNOCN10R	1291	1 - 453	3466			H0556: 11, H0265: 9, H0012: 4, H0616: 4, H0393: 3, H0620: 3, L0163: 3, H0135: 3, S0002: 3, H0651: 3, L0596: 3, H0542: 3, H0543: 3, S0418: 2, S0045: 2, H0266: 2, S0150: 2, H0521: 2, L0591: 2, S0040: 1, H0341: 1, H0663: 1, S0354: 1, S0358: 1, S0046: 1, S0222: 1, H0586: 1, H0486: 1, H0635: 1, H0618: 1, H0581: 1, S0049: 1, H0263: 1, T0103: 1, T0110: 1, H0009: 1, T0003: 1, H0373: 1, S0051: 1, S0336: 1, H0290: 1, H0286: 1, H0328: 1, H0622: 1, H0553: 1, H0124: 1, H0090: 1, S0038: 1, H0100: 1, T0042: 1, S0015: 1, H0560: 1, H0509: 1, H0130: 1, L0654: 1, H0144: 1,

HNOCR44	HNOCR44R	1292	3 - 581	3467	Pro-1 to Lys-10, Phe-31 to Asn-37, Gln-42 to Leu-50, Arg-58 to Gln-65, Leu-86 to Ala-91, Tyr-101 to Ala-111.	L0438: 1, H0547: 1, H0519: 1, H0593: 1, H0435: 1, L0602: 1, S0332: 1, H0522: 1, H0134: 1, S0314: 1, L0439: 1, H0445: 1, S0434: 1, L0485: 1, L0604: 1, L0593: 1, L0594: 1, L0601: 1, H0422: 1 and S0398: 1.		
HNOCU03	HNOCU03R	1293	1 - 258	3468	Glu-1 to Asp-6.			
HNODD77	HNODD77R	1294	204 - 407	3469				
HNODG11	HNODG11R	1295	63 - 320	3470	Ser-47 to Ile-53.			
HNODM92	HNODM92R	1296	269 - 583	3471	Gly-35 to Glu-41.			
HNODP28	HNODP28R	1297	480 - 707	3472				
HNOJA93	HNOJA93R	1298	1 - 453	3473	Gly-13 to Lys-20, Ala-26 to Lys-32, Ala-83 to Leu-88, Gly-128 to Val-135, Phe-142 to Asn-151.			
HNOJB10	HNOJB10R	1299	2 - 391	3474		S0358: 7, L0750: 7, S0360: 6, H0617: 5, S0126: 4, H0545: 3,		

L0776: 3, S0374: 3, L0748: 3, L0755: 3, L0588: 3, H0422: 3, H0685: 2, H0549: 2, H0550: 2, H0632: 2, H0546: 2, H0424: 2, H0163: 2, H0551: 2, L0665: 2, H0593: 2, H0660: 2, S0330: 2, L0747: 2, L0749: 2, L0777: 2, L0757: 2, S0031: 2, H0556: 1, H0686: 1, H0295: 1, S0430: 1, H0657: 1, H0341: 1, H0662: 1, S0278: 1, H0282: 1, H0592: 1, H0586: 1, H0486: 1, T0039: 1, T0109: 1, H0004: 1, H0581: 1, H0309: 1, H0596: 1, T0110: 1, H0231: 1, H0123: 1, H0620: 1, H0083: 1, H0594: 1, H0687: 1, L0483: 1, H0644: 1, H0361: 1, H0087: 1, H0413: 1, H0059: 1, H0494: 1, S0306: 1, S0440: 1, H0509: 1, H0529: 1, L0762: 1,					
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							L0770: 1, L0769: 1, L0372: 1, L0764: 1, L0771: 1, L0773: 1, L0775: 1, L0375: 1, L0556: 1, L0655: 1, L0807: 1, L0656: 1, L0659: 1, L0540: 1, L0783: 1, L0384: 1, S0216: 1, H0144: 1, H0691: 1, H0690: 1, H0684: 1, H0658: 1, H0670: 1, H0672: 1, S0328: 1, S0378: 1, S0380: 1, H0518: 1, H0555: 1, S3014: 1, S0032: 1, L0741: 1, H0445: 1, L0596: 1, S0192: 1, S0194: 1, S0460: 1 and H0352: 1.		
HNOJB57	HNOJB57R	1300	2 - 355	3475	Arg-8 to Gln-18, Thr-24 to Gly-35, Lys-53 to Gly-61, Pro-77 to Cys-82, Pro-103 to Gln-117.				
HNOJD14	HNOJD14R	1301	2 - 439	3476					
HNOJF20	HNOJF20R	1302	10 - 165	3477	Leu-14 to Arg-20, Ser-29 to Ser-38, Pro-43 to Gly-52.				
HNOJG05	HNOJG05R	1303	288 - 572	3478	Ile-34 to Ala-40.				
HNOJH48	HNOJH48R	1304	2 - 283	3479	Arg-70 to Ser-78.	L0748: 17, L0749: 13,			

L0666: 9, H0547: 8, L0758: 8, S0358: 7, S0003: 7, L0754: 7, L0485: 7, S0280: 6, H0038: 6, H0521: 6, S3014: 6, L0777: 6, L0755: 6, H0068: 5, L0659: 5, L0665: 5, L0744: 5, L0740: 5, L0591: 5, H0657: 4, H0656: 4, S0116: 4, H0318: 4, H0266: 4, H0687: 4, H0031: 4, H0040: 4, S0002: 4, S0206: 4, L0752: 4, H0445: 4, H0542: 4, H0423: 4, H0497: 3, H0013: 3, H0427: 3, H0046: 3, H0014: 3, H0615: 3, L0142: 3, S0036: 3, H0090: 3, H0551: 3, S0440: 3, L0662: 3, L0767: 3, H0696: 3, S0027: 3, S0028: 3, L0731: 3, L0362: 3, S0196: 3, H0662: 2, H0638: 2, H0580: 2, S0045: 2, S0222: 2, H0587: 2, H0486: 2, H0706: 2,
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HNOJH52	HNOJH52R	1305	3 - 200	3480					
HNOJI82	HNOJI82R	1306	1 - 489	3481	Lys-36 to Gln-48, Gln-56 to Ser-72, Gly-82 to Val-105, Lys-114 to Lys-120, Ser-122 to Cys-133.				
HNOJI85	HNOJI85R	1307	1 - 552	3482	Ala-1 to Ser-6.	L0754: 5, L0731: 4, L0748: 3, L0750: 3, H0411: 2, H0012: 2, H0687: 2, H0644: 2, L0803: 2, H0550: 1, L0021: 1, H0599: 1, L0022: 1, H0042: 1,			



							H0575: 1, H0150: 1, H0620: 1, T0003: 1, H0673: 1, L0662: 1, L0650: 1, L0774: 1, L0375: 1, L0807: 1, L0515: 1, L0659: 1, L0666: 1, S0374: 1, H0694: 1, L0747: 1, L0749: 1, L0779: 1 and L0755: 1.			
HNOJJ20	HNOJJ20R	1308	1 - 261	3483		Lys-19 to Asn-25, Pro-61 to Lys-66.				
HNOJJ26	HNOJJ26R	1309	2 - 385	3484						
HNOJK66	HNOJK66R	1310	1 - 462	3485		Ser-27 to Gly-38, Ser-63 to Trp-72, Trp-79 to Asn-84, Arg-133 to Trp-139.	L0588: 14, S0046: 13, S0045: 12, T0049: 7, H0599: 7, L0662: 7, L0599: 7, H0427: 6, T0048: 6, H0575: 5, L0747: 5, H0254: 4, H0618: 4, H0617: 4, H0124: 4, H0413: 4, H0052: 3, H0024: 3, H0553: 3, H0269: 3, H0412: 3, H0056: 3, H0623: 3, L0764: 3, L0659: 3, L0809: 3, L0666: 3, L0750: 3, L0758: 3, L0600: 3, S0001: 2, H0255: 2, H0661: 2, H0619: 2,			

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							L0555: 1, L0634: 1, L0788: 1, L0663: 1, L0665: 1, S0044: 1, S0190: 1, L0744: 1, L0749: 1, L0731: 1, H0445: 1, L0589: 1, L0361: 1, L0366: 1 and S0458: 1.			
HNOJL59	HNOJL59R	1311	204 - 479	3486			Glu-1 to Ser-9, Pro-60 to Gln-66.			
HNOJM64	HNOJM64R	1312	3 - 428	3487			Gly-105 to Glu-110, Ala-133 to Tyr-142.			
HNOJO55	HNOJO55R	1313	426 - 265	3488						
HNOJP42	HNOJP42R	1314	12 - 302	3489			Trp-42 to Glu-50.			
HNOJQ22	HNOJQ22R	1315	1 - 510	3490			Phe-164 to Leu-170.			
HNOKA20	HNOKA20R	1316	2 - 268	3491			Gln-30 to Gly-36, Lys-43 to Lys-54, Thr-73 to Ile-79.			
HNOKD74	HNOKD74R	1317	2 - 85	3492						
HNOKG34	HNOKG34R	1318	1 - 510	3493			Lys-17 to Leu-27, Thr-39 to Leu-44, Asp-62 to Gly-70, Arg-89 to Asp-94, Arg-102 to Gly-113, Lys-127 to Glu-132, Thr-152 to Arg-160.			
HNOKG69	HNOKG69R	1319	188 - 418	3494						
HNOKG71	HNOKG71R	1320	2 - 331	3495			Gly-8 to Ala-15, Leu-33 to His-50,			

HNOKH94	HNOKH94R	1321	214 - 411	3496	Phe-59 to Gly-64, Gly-70 to Gly-84. Thr-20 to Asp-27, His-39 to Thr-44.	L0666: 11, S0358: 8, L0752: 8, L0749: 5, L0362: 5, L0771: 4, L0803: 4, L0528: 4, L0664: 4, L0740: 4, L0754: 4, L0599: 4, L0769: 3, L0662: 3, L0657: 3, L0659: 3, L0663: 3, L0748: 3, L0750: 3, L0757: 3, L0758: 3, H0171: 2, S0360: 2, H0574: 2, H0251: 2, L0483: 2, H0412: 2, H0509: 2, L0770: 2, L0774: 2, L0775: 2, L0665: 2, H0690: 2, S0330: 2, L0755: 2, L0731: 2, L0595: 2, H0624: 1, H0170: 1, H0685: 1, H0656: 1, H0663: 1, H0305: 1, H0589: 1, S0356: 1, S0354: 1, H0580: 1, S0132: 1, S0300: 1, L0717: 1, H0331: 1, H0013: 1, H0108: 1, L0105: 1, H0052: 1, H0546: 1,		
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HNOKI06	HNOKI06R	1322	3 - 419	3497	Asp-36 to Glu-46, Gln-52 to Ile-61, Leu-76 to Lys-87, Asn-100 to Val-108, Ser-120 to Gln-128.	H0123: 1, H0024: 1, H0373: 1, H0266: 1, H0687: 1, L0142: 1, H0628: 1, H0673: 1, H0598: 1, H0038: 1, H0529: 1, L0763: 1, L0637: 1, L0761: 1, L0646: 1, L0641: 1, L0768: 1, L0804: 1, L0650: 1, L0776: 1, L0656: 1, L0526: 1, L0367: 1, S0374: 1, H0691: 1, H0519: 1, H0682: 1, H0684: 1, H0648: 1, L0602: 1, S0454: 1, L0439: 1, L0747: 1, L0779: 1, L0780: 1, L0753: 1, L0759: 1, S0434: 1, L0591: 1, L0592: 1, L0608: 1, L0366: 1, S0194: 1 and H0542: 1.		
HNOKI06	HNOKI06R	1322	3 - 419	3497	Asp-36 to Glu-46, Gln-52 to Ile-61, Leu-76 to Lys-87, Asn-100 to Val-108, Ser-120 to Gln-128.	S0410: 13, L0766: 5, H0657: 4, S0422: 4, H0547: 4, S0408: 3, L0758: 3, S0444: 2, H0587: 2, H0486: 2, H0013: 2, H0581: 2, L0471: 2, L0764: 2, L0794: 2, L0666: 2,		

							L0663: 2, H0520: 2, H0660: 2, H0436: 2, L0740: 2, L0751: 2, H0445: 2, S0436: 2, S0400: 1, H0351: 1, H0411: 1, H0632: 1, H0575: 1, S0010: 1, H0318: 1, H0596: 1, T0110: 1, H0545: 1, H0046: 1, H0567: 1, H0373: 1, S6028: 1, H0687: 1, H0031: 1, H0553: 1, H0617: 1, H0264: 1, S0386: 1, S0440: 1, H0646: 1, L0761: 1, L0646: 1, L0771: 1, L0662: 1, L0774: 1, L0805: 1, L0653: 1, L0655: 1, L0664: 1, H0519: 1, H0521: 1, H0478: 1, L0756: 1, L0752: 1, L0759: 1, S0434: 1, L0362: 1, S0192: 1 and H0543: 1.			
HNOKI89	HNOKI89R	1323	2 - 370	3498	Glu-1 to Pro-7, Asp-25 to Leu-31, Arg-54 to Lys-73.					
HNOKN33	HNOKN33R	1324	57 - 284	3499	Pro-7 to Gly-20.			L0751: 9, H0556: 8, H0617: 8, L0777: 6,		



HNOKO45	HNOKO45R	1325	67 - 171	3500				H0594: 1, H0424: 1, H0213: 1, H0030: 1, H0031: 1, H0598: 1, H0100: 1, L0351: 1, H0560: 1, H0625: 1, H0561: 1, H0633: 1, S0144: 1, S0002: 1, S0426: 1, L0763: 1, L0770: 1, L0772: 1, L0372: 1, L0645: 1, L0662: 1, L0767: 1, L0651: 1, L0378: 1, L0776: 1, L0657: 1, L0783: 1, L0382: 1, L0663: 1, S0052: 1, H0520: 1, H0547: 1, H0670: 1, S0378: 1, S0380: 1, H0522: 1, H0555: 1, S3014: 1, L0743: 1, L0756: 1, L0753: 1, L0759: 1, S0031: 1, S0434: 1, L0581: 1, L0595: 1, L0366: 1 and H0423: 1.		
HNOKO45	HNOKO45R	1325	67 - 171	3500				L0665: 14, L0666: 13, L0662: 10, L0659: 10, L0646: 9, L0655: 7, L0663: 7, H0648: 7, L0775: 6, L0717: 5, L0657: 5, H0436: 5,		



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				H0549: 1, H0441: 1, H0415: 1, H0587: 1, L0622: 1, H0486: 1, T0039: 1, H0156: 1, H0318: 1, H0173: 1, H0196: 1, H0597: 1, L0041: 1, H0011: 1, H0057: 1, H0373: 1, H0051: 1, S0051: 1, T0010: 1, H0399: 1, H0061: 1, H0687: 1, H0328: 1, L0055: 1, H0673: 1, H0551: 1, H0413: 1, T0041: 1, H0649: 1, UNKWN: 1, L0762: 1, L0763: 1, L0371: 1, L0769: 1, L0373: 1, L0521: 1, L0364: 1, L0649: 1, L0803: 1, L0650: 1, L0378: 1, L0653: 1, L0606: 1, L0607: 1, L0661: 1, L0512: 1, L0656: 1, L4669: 1, L0517: 1, L0526: 1, L0809: 1, L0647: 1, L2269: 1, L0438: 1, H0519: 1, H0659: 1, H0660: 1, H0651: 1, S0328: 1, S0380: 1,
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								H0710: 1, H0579: 1, S0404: 1, S0406: 1, L0740: 1, L0754: 1, L0777: 1, L0759: 1, S0308: 1, L0605: 1, L0581: 1, L0608: 1, L0601: 1, H0543: 1, S0412: 1, S0424: 1 and H0506: 1.			
HNOKT24	HNOKT24R	1326	98 - 457	3501				Lys-1 to Glu-6, Pro-8 to Gln-21, Ser-43 to Glu-51, Val-61 to Gly-68, Arg-75 to Pro-87, Ser-92 to Phe-98.			
HNOKU52	HNOKU52R	1327	3 - 509	3502				Lys-13 to Ser-41, Lys-57 to Lys-66, Lys-89 to Lys-97, Lys-113 to Ala-118, Pro-131 to Ala-147, Ala-159 to Ala-169.			
HNOKV82	HNOKV82R	1328	3 - 488	3503				Lys-24 to Lys-31, Gly-132 to Glu-137.			
HNOKZ03	HNOKZ03R	1329	216 - 401	3504				H0624: 10, S0192: 8, S0022: 7, S0212: 5, H0031: 4, H0412: 4, S0028: 4, L0747: 4, S0194: 4, H0717: 3, H0427: 3, L0471: 3, S0250: 3, H0039: 3,			

H0644: 3, H0040: 3, H0059: 3, H0144: 3, H0547: 3, S0126: 3, S0037: 3, S0027: 3, S0206: 3, L0439: 3, H0713: 2, H0661: 2, S0360: 2, H0208: 2, S0045: 2, S0046: 2, H0587: 2, H0486: 2, H0575: 2, H0024: 2, H0266: 2, H0622: 2, H0551: 2, S0210: 2, H0520: 2, L0740: 2, L0731: 2, L0605: 2, H0170: 1, H0171: 1, S0040: 1, H0716: 1, H0294: 1, S0116: 1, S0420: 1, S0442: 1, H0619: 1, S0300: 1, H0592: 1, H0586: 1, H0485: 1, H0156: 1, H0590: 1, S0474: 1, S0049: 1, H0596: 1, H0544: 1, H0045: 1, H0012: 1, H0620: 1, H0014: 1, T0010: 1, H0687: 1, S0003: 1, H0615: 1, H0030: 1, S0364: 1, S0366: 1, H0090: 1, H0038: 1,					
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HNORA56	HNORA56R	1330	2 - 595	3505	Leu-24 to Thr-39, Gln-70 to Glu-81, Arg-86 to Leu-98, Glu-104 to Pro-110, Pro-134 to Arg-157, Val-159 to Asn-166.	H0272: 1, H0334: 1, S0150: 1, L0598: 1, L0767: 1, L0766: 1, L0791: 1, L0792: 1, L0665: 1, T0068: 1, L0438: 1, H0660: 1, S3014: 1, L0744: 1, L0754: 1, L0749: 1, L0757: 1, L0759: 1, L0588: 1, L0589: 1, L0591: 1, L0592: 1, S0011: 1, H0665: 1, H0667: 1 and H0506: 1.		
HNORB68	HNORB68R	1331	1 - 210	3506	Gly-1 to Ser-22, Pro-29 to Lys-70.			
HNORC14	HNORC14R	1332	2 - 499	3507		S0412: 22, L0662: 19, L0777: 14, S0010: 11, S0222: 9, S6028: 9, L0750: 9, T0010: 8, L0659: 8, L0747: 8, L0756: 8, L0663: 7, L0439: 7, H0051: 6, L0518: 6, L0754: 6, L0752: 6, S0280: 5,		

				H0575: 5, S0358: 4, S0346: 4, L0753: 4, H0170: 3, H0662: 3, S0360: 3, H0427: 3, L0471: 3, H0373: 3, L0638: 3, L0637: 3, L0764: 3, L0774: 3, L0809: 3, L0666: 3, S0310: 3, H0672: 3, H0696: 3, L0731: 3, H0506: 3, H0713: 2, S0408: 2, H0411: 2, H0455: 2, H0574: 2, S0414: 2, H0486: 2, H0036: 2, S0049: 2, H0052: 2, H0327: 2, H0687: 2, H0428: 2, H0553: 2, H0644: 2, H0038: 2, L0520: 2, L0762: 2, L0770: 2, L0653: 2, L0517: 2, S0044: 2, L0442: 1, H0583: 1, L0443: 1, S0110: 1, S0282: 1, S0400: 1, H0661: 1, S0348: 1, S0356: 1, S0444: 1, H0329: 1, S0007: 1, H0619: 1, S6026: 1, S0300: 1, L0717: 1, S6022: 1,
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							H0693: 1, H0520: 1, H0593: 1, H0689: 1, H0684: 1, S0330: 1, S0380: 1, S0174: 1, H0555: 1, L0612: 1, L0743: 1, L0748: 1, L0751: 1, L0749: 1, L0779: 1, L0759: 1, L0689: 1, S0434: 1, L0604: 1, L0366: 1, S0106: 1 and S0021: 1.			
HNORD11	HNORD11R	1333	155 - 430	3508						
HNORE65	HNORE65R	1334	2 - 436	3509	Ala-24 to Lys-29, Lys-51 to Gly-62.		H0585: 20, H0641: 14, H0521: 9, H0141: 5, H0031: 5, H0422: 5, H0644: 4, L0755: 4, H0295: 3, H0638: 3, S0376: 3, H0544: 3, S0440: 3, H0689: 3, H0690: 3, L0757: 3, H0657: 2, S0360: 2, H0586: 2, H0581: 2, H0063: 2, S0144: 2, L0662: 2, H0691: 2, H0520: 2, S0126: 2, H0522: 2, L0740: 2, L0777: 2, H0423: 2, S0298: 1, H0306: 1, S0132: 1, S0278: 1, H0549: 1, S0222: 1,			



HNORF03	HNORF03R	1335	37 - 387	3510	Pro-19 to His-36, Glu-68 to Ala-86.	H0587: 1, H0333: 1, H0575: 1, H0706: 1, H0052: 1, H0309: 1, H0596: 1, H0546: 1, H0545: 1, H0086: 1, H0009: 1, H0284: 1, T0023: 1, L0143: 1, H0551: 1, H0494: 1, S0438: 1, S0002: 1, L0371: 1, L0770: 1, L0769: 1, L0667: 1, L0372: 1, L0646: 1, L0553: 1, L0771: 1, L0774: 1, L0375: 1, L0806: 1, L0382: 1, H0703: 1, H0593: 1, H0682: 1, S0328: 1, S0380: 1, H0555: 1, S0027: 1, L0742: 1, L0747: 1, L0779: 1, L0753: 1, H0445: 1 and H0543: 1.
						L0439: 6, L0794: 2, L0665: 2, H0691: 2, L0717: 1, H0068: 1, L0761: 1, L0646: 1, L0773: 1, L0662: 1, L0790: 1, L0663: 1, L0438: 1, L0748: 1, L0758: 1, L0592: 1 and

HNORF04	HNORF04R	1336	1 - 168	3511			L0608: 1.			
HNORF05	HNORF05R	1337	2 - 334	3512	Thr-2 to Phe-7, Gly-18 to Arg-23, Asp-27 to Glu-35.					
HNORF13	HNORF13R	1338	1 - 636	3513	Gly-1 to Thr-10.					
HNORH03	HNORH03R	1339	3 - 680	3514			S0358: 7, L0750: 7, S0360: 6, H0617: 5, S0126: 4, H0545: 3, L0776: 3, S0374: 3, L0748: 3, L0755: 3, L0588: 3, H0422: 3, H0685: 2, H0549: 2, H0550: 2, H0632: 2, H0546: 2, H0424: 2, H0163: 2, H0551: 2, L0665: 2, H0593: 2, H0660: 2, S0330: 2, L0747: 2, L0749: 2, L0777: 2, L0757: 2, S0031: 2, H0556: 1, H0686: 1, H0295: 1, S0430: 1, H0657: 1, H0341: 1, H0662: 1, S0278: 1, H0282: 1, H0592: 1, H0586: 1, H0486: 1, T0039: 1, T0109: 1, H0004: 1, H0581: 1, H0309: 1, H0596: 1, T0110: 1,			

						H0231: 1, H0123: 1, H0620: 1, H0083: 1, H0594: 1, H0687: 1, L0483: 1, H0644: 1, H0361: 1, H0087: 1, H0413: 1, H0059: 1, H0494: 1, S0306: 1, S0440: 1, H0509: 1, H0529: 1, L0762: 1, L0770: 1, L0769: 1, L0372: 1, L0764: 1, L0771: 1, L0773: 1, L0775: 1, L0375: 1, L0556: 1, L0655: 1, L0807: 1, L0656: 1, L0659: 1, L0540: 1, L0783: 1, L0384: 1, S0216: 1, H0144: 1, H0691: 1, H0690: 1, H0684: 1, H0658: 1, H0670: 1, H0672: 1, S0328: 1, S0378: 1, S0380: 1, H0518: 1, H0555: 1, S3014: 1, S0032: 1, L0741: 1, H0445: 1, L0596: 1, S0192: 1, S0194: 1, S0460: 1 and H0352: 1.			
HNORH05	HNORH05R	1340	1 - 498	3515	Arg-13 to Arg-21, Asp-26 to Pro-35,				

						Glu-58 to Gly-65, Ser-74 to Pro-82, Gln-107 to Asp-115, Asp-128 to Asn- 137, Gln-145 to Arg-154, Gln-161 to Ser-166.				
HNORH35	HNORH35R	1341	20 - 244	3516		Ala-19 to Ser-27, Ser-41 to Val-53.				
HNORJ08	HNORJ08R	1342	3 - 377	3517		Asn-95 to Leu-100.				
HNTRB70	HNTRB70R	1343	144 - 377	3518		Pro-3 to Ile-12, Asn-20 to Glu-25.				
HOCMA02	HOCMA02R A	1344	3 - 530	3519		Ile-121 to Val-129, Ala-136 to Glu-142.	L0742: 10, H0144: 6, H0265: 5, S0116: 4, S0046: 4, S0222: 4, H0556: 3, H0250: 3, H0052: 3, S0027: 3, L0595: 3, S0212: 2, H0306: 2, S0358: 2, H0013: 2, H0618: 2, H0124: 2, H0100: 2, S0053: 2, H0660: 2, S0330: 2, S3012: 2, L0748: 2, L0439: 2, L0745: 2, L0757: 2, H0445: 2, S0342: 1, H0484: 1, H0638: 1, S0007: 1, H0393: 1, H0437: 1, H0549: 1, H0438: 1, H0486: 1,			

HOCMB45	HOCMB45R A	1345	347 - 541	3520	Asn-39 to Gln-44, Leu-47 to Asp-55.	H0253: 1, H0390: 1, H0544: 1, H0046: 1, H0009: 1, H0023: 1, N0007: 1, T0010: 1, H0188: 1, H0687: 1, S0003: 1, H0030: 1, S0364: 1, L0455: 1, S0366: 1, H0090: 1, H0038: 1, H0551: 1, H0412: 1, H0059: 1, S0038: 1, H0130: 1, H0641: 1, S0142: 1, S0002: 1, H0517: 1, L0643: 1, L0771: 1, L0794: 1, L0766: 1, L0775: 1, L0654: 1, L0655: 1, L0352: 1, S0008: 1, H0435: 1, H0659: 1, H0658: 1, H0672: 1, H0521: 1, H0522: 1, S0044: 1, H0576: 1, L0779: 1, L0605: 1, L0593: 1, S0026: 1, H0667: 1, S0276: 1, S0196: 1, H0542: 1, H0423: 1 and H0506: 1.		
HOCMB45	HOCMB45R A	1345	347 - 541	3520	Asn-39 to Gln-44, Leu-47 to Asp-55.	L0439: 17, L0438: 6, H0424: 5, S0007: 4, L0769: 4, H0213: 3.		

HOCMB65	HOCMB65R	1346	241 - 456	3521			L0776: 3, H0660: 3, H0309: 2, S0051: 2, L0789: 2, L0663: 2, L0750: 2, L0757: 2, L0759: 2, S0196: 2, S0040: 1, S0001: 1, H0662: 1, H0402: 1, L0005: 1, S0356: 1, H0052: 1, H0596: 1, H0009: 1, T0010: 1, L0483: 1, T0006: 1, H0033: 1, H0031: 1, H0169: 1, H0634: 1, H0538: 1, L0638: 1, L0643: 1, L0764: 1, L0768: 1, L0803: 1, L0804: 1, L0375: 1, L0606: 1, L0659: 1, L0791: 1, L0352: 1, H0547: 1, L0602: 1, H0436: 1, L0742: 1, L0749: 1, L0777: 1, L0752: 1, L0731: 1, L0758: 1, S0394: 1, L0596: 1 and S0412: 1.		
HOCMC08	HOCMB65R A	1346	241 - 456	3521					
HOCMC08	HOCMC08R	1347	1 - 426	3522	Lys-18 to Tyr-31, Ile-45 to Asp-50, Trp-78 to Ser-88,				

					Pro-102 to Pro-109.				
HOCMF06	HOCMF06R	1348	382 - 588	3523	Glu-1 to Ile-6, Asp-125 to Pro-131.				
HOCMF27	HOCMF27R	1349	3 - 395	3524					
								</	

HOCMF50	HOCMF50RB	1350	49 - 354	3525	Gly-2 to Lys-9, Arg-21 to Glu-32, Pro-58 to Lys-64, Thr-73 to Glu-83.	L0519: 1, L0788: 1, L0789: 1, L0666: 1, H0520: 1, H0519: 1, H0658: 1, H0660: 1, S0152: 1, S0013: 1, H0696: 1, S0044: 1, S0174: 1, S0146: 1, H0479: 1, L0744: 1, L0777: 1, L0758: 1, L0581: 1, L0608: 1, L0593: 1 and H0136: 1.		
HOCMF54	HOCMF54R	1351	37 - 285	3526	Lys-1 to Thr-6, Ala-26 to Gly-36, Ser-47 to Gln-55, Leu-72 to Cys-83.	H0687: 1, L0663: 1 and H0660: 1.  L0794: 7, L0666: 4, L0750: 3, L0664: 2, L0665: 2, H0670: 2, H0660: 2, L0439: 2, L0751: 2, L0756: 2, H0650: 1, H0150: 1, L0769: 1, L0803: 1, L0378: 1, L0657: 1, H0684: 1 and H0555: 1.		
HOCMG37	HOCMG37R	1352	1 - 456	3527	Gly-1 to Asn-9, Glu-31 to Val-39.	H0657: 13, S0360: 12, S0026: 7, H0547: 6, H0171: 4, S0356: 4, H0551: 4, H0560: 4, H0509: 4, H0689: 4, H0543: 4, S0358: 3,		



	H0318: 3, S0440: 3, H0529: 3, H0435: 3, H0665: 3, H0170: 2, H0265: 2, H0556: 2, H0222: 2, S0376: 2, L0717: 2, H0642: 2, H0574: 2, H0575: 2, H0596: 2, S0003: 2, H0615: 2, H0428: 2, H0617: 2, H0413: 2, H0494: 2, H0646: 2, L0369: 2, H0144: 2, H0520: 2, H0519: 2, H0690: 2, H0658: 2, H0660: 2, H0672: 2, L0362: 2, H0542: 2, H0423: 2, H0686: 1, H0650: 1, H0656: 1, S0212: 1, S0029: 1, H0483: 1, H0663: 1, H0664: 1, H0638: 1, S0420: 1, H0580: 1, S0278: 1, H0261: 1, H0438: 1, H0586: 1, T0060: 1, H0069: 1, S0010: 1, H0263: 1, H0327: 1, H0546: 1, H0014: 1, H0083: 1, H0510: 1, S6028: 1, H0266: 1, S0214: 1,				
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							H0553: 1, H0068: 1, H0090: 1, H0040: 1, H0634: 1, T0067: 1, H0079: 1, H0561: 1, L0065: 1, H0130: 1, H0647: 1, S0422: 1, L0772: 1, L0648: 1, L0662: 1, L0768: 1, L0375: 1, L0657: 1, L0659: 1, L0518: 1, S0310: 1, L0438: 1, H0670: 1, H0648: 1, S0380: 1, H0521: 1, H0436: 1, L0439: 1, L0749: 1, L0756: 1, L0779: 1, L0731: 1, H0343: 1, L0596: 1, L0588: 1, L0590: 1, L0591: 1, L0603: 1, H0653: 1, S0196: 1, H0422: 1, S0424: 1, S0384: 1 and H0506: 1.			
HOCMI62	HOCMI62R	1353	49 - 348	3528						
HOCMI47	HOCMI47R	1354	1 - 510	3529	Lys-23 to Ser-29, Tyr-55 to His-62, Tyr-65 to Leu-71.					
HOCMK20	HOCMK20R	1355	14 - 400	3530	Glu-32 to Ser-38.					
HOCML06	HOCML06R	1356	3 - 707	3531	Gly-1 to Arg-9.					
HOCML66	HOCML66R	1357	2 - 289	3532		L0748: 2, S6028: 1, H0682: 1, H0660: 1,				

HOCMM52	HOCMM52R	1358	130 - 594	3533	Thr-19 to Cys-25, Lys-133 to Ala-138.	S0378: 1 and H0506: 1.		
HOCMO50	HOCMO50R	1359	3 - 425	3534				
HOCMS75	HOCMS75R	1360	3 - 500	3535		H0295: 8, H0617: 7, L0665: 7, H0435: 7, H0592: 6, H0494: 6, L0439: 6, L0751: 6, S0360: 5, S0046: 4, H0587: 4, H0012: 4, H0264: 4, L0662: 4, S0406: 4, H0586: 3, H0620: 3, H0031: 3, H0551: 3, S0440: 3, S0002: 3, L0763: 3, L0648: 3, L0649: 3, L0774: 3, L0659: 3, H0520: 3, H0547: 3, H0689: 3, H0660: 3, S0328: 3, S0330: 3, L0748: 3, L0754: 3, L0750: 3, H0294: 2, H0650: 2, H0341: 2, S0356: 2, S0132: 2, H0370: 2, H0333: 2, H0643: 2, L0623: 2, H0706: 2, H0081: 2, H0039: 2, H0553: 2, H0181: 2, H0068: 2, H0135: 2, H0040: 2,		

	H0646: 2, L0640: 2, L0637: 2, L0641: 2, L0764: 2, L0804: 2, L0806: 2, L0776: 2, L0657: 2, L0809: 2, L0664: 2, H0519: 2, H0682: 2, H0670: 2, H0672: 2, L0744: 2, L0740: 2, S0434: 2, H0677: 2, H0483: 1, H0305: 1, H0638: 1, S0442: 1, S0358: 1, S0376: 1, S0410: 1, H0411: 1, H0550: 1, H0455: 1, H0600: 1, H0101: 1, H0575: 1, H0590: 1, H0618: 1, H0052: 1, H0234: 1, H0597: 1, H0121: 1, L0041: 1, H0123: 1, H0246: 1, H0290: 1, H0292: 1, H0428: 1, H0622: 1, T0023: 1, H0030: 1, H0316: 1, H0059: 1, H0100: 1, S0306: 1, T0090: 1, H0649: 1, S0210: 1, S0426: 1, L0646: 1, L0765: 1, L0771: 1, L0626: 1, L0768: 1,	
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HOCMS87	HOCMS87R	1361	145 - 636	3536	Pro-84 to Pro-91.	L0364: 1, L0766: 1, L0375: 1, L0651: 1, L0378: 1, L0653: 1, L0655: 1, L0558: 1, L0635: 1, L0518: 1, L0383: 1, L0792: 1, L0663: 1, S0006: 1, H0696: 1, S0044: 1, S3014: 1, L0743: 1, L0752: 1, L0755: 1, L0731: 1, L0759: 1, H0216: 1, H0543: 1, S0424: 1 and H0506: 1.		
HOCMS87	HOCMS87R	1361	145 - 636	3536	Pro-84 to Pro-91.	L0743: 9, H0551: 5, H0645: 4, H0050: 4, S0250: 4, S0192: 4, H0624: 3, T0039: 3, H0087: 3, H0547: 3, L0439: 3, H0294: 2, H0370: 2, T0040: 2, H0620: 2, H0024: 2, H0622: 2, H0424: 2, H0031: 2, H0063: 2, L0662: 2, L0776: 2, S0028: 2, L0757: 2, S0242: 2, S0116: 1, H0484: 1, H0483: 1, S0360: 1, H0619: 1, H0550: 1, H0586: 1, H0497: 1, H0486: 1,		

							H0599: 1, H0575: 1, H0122: 1, H0706: 1, H0421: 1, S0049: 1, H0086: 1, H0123: 1, H0081: 1, H0012: 1, H0687: 1, H0028: 1, H0604: 1, S0386: 1, L0772: 1, L0648: 1, L0803: 1, L0774: 1, L0375: 1, L0789: 1, L0532: 1, L0663: 1, T0068: 1, S0126: 1, H0684: 1, H0660: 1, S0152: 1, S0027: 1, L0747: 1, L0749: 1, L0779: 1, L0777: 1, S0194: 1 and H0506: 1.			
HOCMX29	HOCMX29R	1362	86 - 235	3537						
HOCMY53	HOCMY53R	1363	76 - 354	3538	Glu-1 to Gly-6, Leu-27 to Val-40, Glu-60 to Asn-67.					
HOCMY61	HOCMY61R	1364	2 - 466	3539						
HOCMY79	HOCMY79R	1365	314 - 511	3540	Gly-17 to Arg-42, Phe-56 to Ser-66.					
HOCOC38	HOCOC38R	1366	394 - 2	3541	Lys-1 to His-6.					
HOCOC41	HOCOC41R	1367	520 - 789	3542	Lys-7 to Glu-13, Gly-39 to Thr-44, Gly-82 to Ile-89, Glu-98 to Asn-105.					
HOCOC94	HOCOC94R	1368	3 - 488	3543						

				H0013: 4, L0770: 4, S0380: 4, L0748: 4, L0758: 4, H0171: 3, H0599: 3, S0010: 3, H0052: 3, S0003: 3, H0615: 3, L0598: 3, L0666: 3, L0665: 3, H0519: 3, H0658: 3, L0749: 3, H0255: 2, S0376: 2, S0444: 2, S0360: 2, H0632: 2, H0327: 2, S0214: 2, H0038: 2, H0040: 2, L0769: 2, L0638: 2, L0662: 2, L0794: 2, L0775: 2, L0776: 2, H0660: 2, S0330: 2, L0744: 2, L0750: 2, L0756: 2, L0757: 2, L0362: 2, L0361: 2, H0170: 1, H0685: 1, S0040: 1, S0342: 1, H0716: 1, S0001: 1, S0282: 1, H0662: 1, S0356: 1, S0358: 1, H0675: 1, S0408: 1, H0580: 1, S0300: 1, H0406: 1, S0278: 1, H0550: 1, H0441: 1, H0431: 1, H0600: 1,	
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	H0331: 1, H0574: 1, T0039: 1, H0156: 1, S0665: 1, S0346: 1, H0263: 1, H0596: 1, H0546: 1, H0150: 1, H0009: 1, H0569: 1, L0471: 1, H0012: 1, H0051: 1, S0051: 1, T0010: 1, H0266: 1, S0250: 1, S0022: 1, H0428: 1, H0119: 1, H0553: 1, H0628: 1, H0617: 1, H0316: 1, H0634: 1, H0412: 1, H0413: 1, H0623: 1, H0494: 1, S0450: 1, H0130: 1, S0142: 1, UNKWN: 1, L0771: 1, L0766: 1, L0803: 1, L0804: 1, L0774: 1, L0784: 1, L0805: 1, L0652: 1, L0653: 1, L0655: 1, L0606: 1, L0527: 1, L0783: 1, L0663: 1, H0547: 1, H0689: 1, H0670: 1, H0648: 1, H0539: 1, H0521: 1, H0696: 1, H0478: 1, S0432: 1, H0540: 1, S0028: 1,					
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							S0206: 1, L0746: 1, L0747: 1, S0031: 1, L0689: 1, S0436: 1, S0194: 1, S0276: 1, S0412: 1, H0506: 1 and H0352: 1.			
HOCOF35	HOCOF35R	1369	221 - 502	3544		Pro-6 to Arg-12, Gln-17 to Leu-22, His-25 to Asp-32, Gly-62 to Lys-69.				
HOCOF50	HOCOF50R	1370	2 - 409	3545		Thr-16 to Phe-28, Cys-58 to Ser-69, Glu-91 to Glu-99, Lys-113 to Gln-119.				
HOCOO62	HOCOO62R	1371	9 - 539	3546		Gln-37 to Trp-44, Arg-47 to Phe-57, Phe-67 to Ala-83, Pro-94 to Gly-99, Lys-109 to Cys-116, Arg-130 to Ser-137.				
HOCOP52	HOCOP52R	1372	2 - 382	3547						
HOCOQ13	HOCOQ13R	1373	46 - 492	3548		Glu-1 to Val-9.	H0521: 5, S0040: 3, H0039: 3, H0657: 2, H0341: 2, H0553: 2, S0210: 2, H0593: 2, H0445: 2, L0596: 2, S0212: 1, H0661: 1, S0418: 1, S0354: 1, S0358: 1, H0592: 1, T0039: 1, H0635: 1,			

							H0427: 1, H0544: 1, H0546: 1, H0545: 1, H0046: 1, L0471: 1, H0083: 1, S6028: 1, S0338: 1, S0003: 1, H0068: 1, H0038: 1, H0063: 1, H0551: 1, H0100: 1, T0042: 1, H0494: 1, H0561: 1, H0646: 1, L0800: 1, L0649: 1, L0654: 1, L0666: 1, H0660: 1, H0518: 1, S0152: 1, S0146: 1, H0555: 1, S0037: 1, S0028: 1, L0605: 1, L0599: 1, L0603: 1, H0667: 1, H0542: 1, H0543: 1, S0424: 1 and H0506: 1.			
HOCOQ93	HOCOQ93R	1374	448 - 639	3549						
HOCOT70	HOCOT70R	1375	2 - 412	3550						
HOCOV29	HOCOV29R	1376	107 - 268	3551	Lys-9 to Asp-16, Thr-27 to Trp-36.					
HOCPF69	HOCPF69R	1377	1 - 573	3552						
HOC PG38	HOC PG38R	1378	1 - 183	3553	Pro-38 to Gln-43.		H0046: 5, H0144: 5, L0665: 4, L0662: 3, L0766: 3, L0750: 3, L0779: 3, L0759: 3, H0170: 2, S0376: 2, H0329: 2, H0427: 2,			

	L0770: 2, L0529: 2, L0439: 2, L0740: 2, L0751: 2, L0758: 2, S0242: 2, H0223: 1, H0685: 1, S0116: 1, S0282: 1, H0662: 1, S6022: 1, H0574: 1, H0486: 1, H0013: 1, H0098: 1, H0575: 1, H0581: 1, H0052: 1, L0471: 1, H0024: 1, H0510: 1, H0594: 1, H0328: 1, H0169: 1, H0598: 1, H0163: 1, H0646: 1, L0637: 1, L0768: 1, L0794: 1, L0804: 1, L0775: 1, L0653: 1, L0659: 1, L0526: 1, L0783: 1, L0809: 1, L0544: 1, L0647: 1, L0666: 1, L0664: 1, S0374: 1, L0438: 1, H0519: 1, H0670: 1, H0660: 1, H0648: 1, S0378: 1, H0696: 1, S0432: 1, L0777: 1, L0755: 1, S0308: 1, L0591: 1, L0608: 1, S0192: 1, S0194: 1, H0543: 1,				
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HOC PG48	HOC PG48R	1379	39 - 185	3554			H0423: 1 and S0412: 1.		
HOC PH40	HOC PH40R	1380	2 - 217	3555	Leu-9 to Val-14, Glu-41 to Ala-49.		L0731: 7, S0358: 6, L0439: 6, L0769: 5, L0809: 4, L0747: 4, S0354: 3, H0580: 3, H0438: 3, H0581: 3, L0770: 3, L0766: 3, L0774: 3, L0775: 3, L0740: 3, L0749: 3, L0758: 3, L0596: 3, H0677: 3, H0392: 2, H0457: 2, L0471: 2, H0510: 2, H0169: 2, H0551: 2, T0042: 2, H0494: 2, S0438: 2, L0761: 2, L0657: 2, L0783: 2, L0647: 2, L0666: 2, L0565: 2, L0438: 2, H0521: 2, L0748: 2, L0750: 2, L0779: 2, L0752: 2, L0759: 2, L0588: 2, L0605: 2, L0592: 2, L0581: 2, L0615: 1, S0116: 1, H0638: 1, S0418: 1, S0444: 1, S0360: 1, S0222: 1, H0586: 1, H0427: 1, H0618: 1, H0390: 1,		

							H0318: 1, H0007: 1, H0052: 1, H0544: 1, H0024: 1, H0014: 1, H0083: 1, H0375: 1, S6028: 1, H0266: 1, H0398: 1, L0055: 1, H0135: 1, H0087: 1, S0344: 1, S0426: 1, H0529: 1, L0763: 1, L0639: 1, L0374: 1, L0764: 1, L0662: 1, L0768: 1, L0803: 1, L0378: 1, L0776: 1, L0659: 1, L0518: 1, L0663: 1, L0665: 1, S0374: 1, H0547: 1, H0519: 1, H0593: 1, H0690: 1, H0682: 1, H0660: 1, S0328: 1, H0539: 1, H0555: 1, L0743: 1, L0777: 1, H0445: 1, L0362: 1, S0242: 1 and H0543: 1.			
HOCPh44	HOCPh44R	1381	3 - 281	3556	Gly-18 to Asp-23, Gln-34 to Gly-40, Asp-81 to Lys-87.					
HOCPI28	HOCPI28R	1382	3 - 245	3557						
HOCPI53	HOCPI53R	1383	2 - 232	3558	Asp-43 to Gly-48.					
HOCPL59	HOCPL59R	1384	285 - 530	3559						
HOCPM39	HOCPM39R	1385	2 - 136	3560						

HOCPP65	HOCPP65R	1386	3 - 275	3561	Ala-2 to Ala-9.	L0747: 10, L0805: 6, S0358: 4, L0775: 4, L0655: 4, L0749: 4, H0656: 3, S0440: 3, L0803: 3, L0776: 3, L0789: 3, H0650: 2, H0662: 2, L0471: 2, H0620: 2, H0169: 2, H0616: 2, L0770: 2, L0769: 2, L0761: 2, L0800: 2, L0794: 2, L0804: 2, L0806: 2, L0657: 2, L0809: 2, L0665: 2, H0547: 2, S0126: 2, H0660: 2, H0648: 2, H0521: 2, S0406: 2, L0748: 2, L0750: 2, L0758: 2, L0581: 2, T0002: 1, H0686: 1, H0657: 1, S0418: 1, S0420: 1, S0356: 1, S0442: 1, S0444: 1, H0574: 1, H0559: 1, H0486: 1, L0586: 1, T0114: 1, H0250: 1, H0318: 1, H0014: 1, H0051: 1, H0266: 1, H0292: 1, H0428: 1, H0031: 1, H0673: 1, H0163: 1,		
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HOCPP80	HOCPP80R	1387	3 - 587	3562	Glu-16 to Lys-21, Asn-62 to Arg-68, Asp-94 to Thr-102, Gly-161 to Leu-170.		H0591: 1, H0494: 1, L0640: 1, L0763: 1, L0772: 1, L0773: 1, L0521: 1, L0766: 1, L0774: 1, L0375: 1, L0384: 1, L0793: 1, H0144: 1, H0703: 1, S0374: 1, H0593: 1, H0690: 1, H0659: 1, H0658: 1, S0328: 1, S0152: 1, L0744: 1, L0779: 1, L0752: 1, L0755: 1, L0731: 1, L0759: 1, S0026: 1, H0136: 1, H0542: 1 and H0422: 1.		
HOCQP24	HOCQP24R	1388	26 - 358	3563	Ser-9 to Glu-16,		L0754: 4, H0290: 2,		
HOCQP59	HOCQP59R	1389	2 - 394	3564	Phe-49 to Tyr-58, Asn-102 to Gly-110.		L0761: 2, L0794: 2, L0766: 2, L0793: 2, L0731: 2, L0758: 2, L0759: 2, L0594: 2, H0713: 1, H0402: 1, S0418: 1, S0354: 1, H0580: 1, L0717: 1, H0550: 1, H0333: 1,		

HOCPR01	HOCPR01R	1392	3 - 536	3567	Ser-11 to Trp-18, Glu-43 to Leu-50, Phe-99 to Arg-120, Ser-136 to Tyr-144, Glu-154 to Cys-163.		H0643: 1, H0574: 1, S0280: 1, H0618: 1, H0052: 1, H0546: 1, H0545: 1, H0014: 1, H0033: 1, H0100: 1, L5566: 1, L0773: 1, L0521: 1, L0803: 1, L0804: 1, L0807: 1, L0788: 1, H0670: 1, H0660: 1, H0521: 1, S0404: 1, S0406: 1, H0436: 1, L0779: 1, H0543: 1 and H0352: 1.		
HOCPR01	HOCPR01R	1392	2 - 487	3566	Asp-24 to Leu-31, Ile-123 to Gln-128.				
HOCPR01	HOCPR01R	1392	2 - 487	3566	Ser-11 to Trp-18, Glu-43 to Leu-50, Phe-99 to Arg-120, Ser-136 to Tyr-144, Glu-154 to Cys-163.				
HOCPR29	HOCPR29R	1393	1 - 588	3568	Gln-14 to Lys-19, Glu-79 to Gly-87.		L0748: 9, H0556: 8, L0769: 5, L0766: 4, L0776: 4, H0547: 4, H0521: 4, L0750: 4, L0752: 4, L0758: 4, S0434: 4, H0542: 4, H0657: 3, S0418: 3, H0586: 3, H0587: 3, H0013: 3, H0052: 3,		



				H0083: 3, H0038: 3, H0634: 3, H0494: 3, S0440: 3, L0774: 3, L0775: 3, L0659: 3, H0522: 3, L0744: 3, L0749: 3, L0755: 3, L0759: 3, H0543: 3, S0358: 2, S0476: 2, H0156: 2, H0194: 2, L0471: 2, H0014: 2, H0201: 2, S0003: 2, T0023: 2, H0135: 2, H0551: 2, S0142: 2, L0372: 2, L0662: 2, L0767: 2, L0381: 2, L0383: 2, L0666: 2, L0665: 2, H0658: 2, H0660: 2, S0044: 2, S3014: 2, L0751: 2, L0754: 2, L0596: 2, L0588: 2, L0591: 2, L0592: 2, L0595: 2, L0601: 2, H0423: 2, S0040: 1, S0134: 1, S0298: 1, H0661: 1, H0664: 1, H0125: 1, S0420: 1, S0356: 1, S0354: 1, S0444: 1, S0360: 1, H0619: 1, H0393: 1, H0549: 1,				
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	H0550: 1, S0222: 1, S6014: 1, H0431: 1, H0592: 1, H0574: 1, T0039: 1, T0114: 1, H0075: 1, H0427: 1, H0590: 1, H0004: 1, H0318: 1, H0581: 1, H0251: 1, H0596: 1, T0115: 1, H0009: 1, H0081: 1, H0050: 1, H0024: 1, T0010: 1, H0687: 1, H0288: 1, H0290: 1, H0039: 1, H0622: 1, L0055: 1, H0032: 1, H0090: 1, H0591: 1, H0040: 1, H0063: 1, H0413: 1, T0069: 1, S0438: 1, H0538: 1, S0210: 1, S0426: 1, H0529: 1, L0520: 1, L0762: 1, L0763: 1, L0770: 1, L0374: 1, L0764: 1, L0768: 1, L0386: 1, L0803: 1, L0524: 1, L0806: 1, L0379: 1, L0527: 1, L0657: 1, L0382: 1, L0809: 1, L0788: 1, L0663: 1, S0052: 1, S0374: 1,				
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						H0691: 1, H0682: 1, H0435: 1, H0659: 1, S0328: 1, S0330: 1, S0152: 1, H0436: 1, L0611: 1, S0027: 1, S0028: 1, L0747: 1, L0779: 1, L0780: 1, L0731: 1, L0608: 1, S0026: 1, H0653: 1, S0192: 1, S0194: 1, H0422: 1 and S0384: 1.			
HOCPR33	HOCPR33R	1394	168 - 335	3569					
HOCPR53	HOCPR53R	1395	62 - 256	3570	Glu-22 to Glu-30, Lys-42 to Glu-51.				
HOCPR55	HOCPR55R	1396	3 - 440	3571	Pro-7 to Ser-36, Cys-49 to Pro-57, Pro-85 to Ala-91, Gly-97 to Pro-109.	L0766: 2, H0660: 2, L0748: 2, L0740: 2, H0328: 1, L0769: 1, L0651: 1, L0653: 1, H0593: 1 and S0126: 1.			
HOCPR77	HOCPR77R	1397	1 - 279	3572					
HOCPR82	HOCPR82R	1398	1 - 102	3573					
HOCPS35	HOCPS35R	1399	3 - 203	3574	Tyr-1 to Gly-39, Ala-41 to Tyr-67.				
HOCPU03	HOCPU03R	1400	1 - 225	3575					
HOCPU30	HOCPU30R	1401	333 - 560	3576					
HOCPU68	HOCPU68R	1402	3 - 269	3577	Ser-49 to Asp-56; Arg-64 to Ile-71, Pro-80 to Ile-89.				
HOCVP29	HOCVP29R	1403	339 - 599	3578	His-10 to Asp-20,	H0620: 2, S0022: 2,			

					Asn-27 to Gly-33.	L0438: 2, T0002: 1, H0393: 1, H0370: 1, H0050: 1, H0373: 1, H0051: 1, H0028: 1, S0036: 1, H0551: 1, H0059: 1, S0150: 1, L0662: 1, S0126: 1, H0435: 1, H0660: 1, S0044: 1 and H0694: 1.			
H0CPV67	H0CPV67R	1404	1 - 390	3579		L0803: 7, L0439: 5, L0809: 4, L0749: 4, L0776: 3, H0520: 3, L0748: 3, L0750: 3, H0543: 3, S0440: 2, L0794: 2, L0804: 2, L0438: 2, H0547: 2, H0660: 2, S0406: 2, L0743: 2, L0777: 2, L0759: 2, H0556: 1, H0656: 1, S0358: 1, S0360: 1, H0637: 1, H0580: 1, H0741: 1, H0733: 1, H0619: 1, H0415: 1, H0600: 1, H0587: 1, H0486: 1, H0013: 1, H0427: 1, S0474: 1, H0581: 1, H0263: 1, H0457: 1, H0615: 1, H0428: 1, H0644: 1, H0032: 1,			

HOCPV72	HOCPV72R	1405	3 - 209	3580			S0036: 1, H0591: 1, H0634: 1, H0264: 1, S0438: 1, S0422: 1, S0002: 1, L0520: 1, L0766: 1, L0649: 1, L0650: 1, L0774: 1, L0775: 1, L0655: 1, L0790: 1, L0666: 1, L0663: 1, H0723: 1, H0593: 1, H0682: 1, H0670: 1, H0521: 1, S0013: 1, H0631: 1, S0206: 1, L0756: 1, L0731: 1, L0608: 1, S0194: 1 and S0424: 1.		
HOCPW56	HOCPW56R	1406	2 - 502	3581	Ile-53 to Trp-63, Ala-80 to Gly-89, Arg-134 to Gln-139.		L0752: 19, L0747: 12, L0776: 6, L0750: 5, L0608: 5, L0774: 4, L0805: 4, L0438: 4, L0740: 4, S0210: 3, L0600: 3, S0358: 2, S0222: 2, H0068: 2, H0040: 2, H0413: 2, L0770: 2, L0769: 2, L0772: 2, L0794: 2, L0783: 2, L0809: 2, S0328: 2, L0439: 2, L0745: 2, L0755: 2, L0758: 2, L0590: 2,		

	H0170: 1, H0341: 1, H0483: 1, S0420: 1, S0410: 1, S0300: 1, H0411: 1, H0549: 1, L0622: 1, H0013: 1, H0156: 1, S0010: 1, H0052: 1, H0545: 1, N0006: 1, L0471: 1, H0012: 1, S0336: 1, H0428: 1, T0006: 1, H0606: 1, H0674: 1, L0455: 1, S0036: 1, H0038: 1, H0063: 1, H0494: 1, H0560: 1, L0520: 1, L0762: 1, L0521: 1, L0662: 1, L0767: 1, L0803: 1, L0653: 1, L0659: 1, L0790: 1, L0791: 1, L0666: 1, H0144: 1, S0374: 1, H0689: 1, H0690: 1, H0659: 1, H0660: 1, H0648: 1, S0378: 1, H0134: 1, H0214: 1, L0749: 1, L0731: 1, L0361: 1, S0106: 1, S0011: 1, H0653: 1, S0192: 1, S0242: 1, S0194: 1 and H0422: 1.					
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HOCPW68	HOCPW68R	1407	1 - 297	3582					
HOCPW81	HOCPW81R	1408	2 - 694	3583	Pro-42 to Ser-59, Asp-159 to Asn-168, Tyr-196 to Gly-205.	H0046: 9, L0777: 3, S0376: 2, H0050: 2, S0344: 2, S0126: 2, H0670: 2, S0152: 2, H0521: 2, H0542: 2, H0543: 2, H0341: 1, S0354: 1, S0358: 1, S0408: 1, H0619: 1, H0393: 1, H0592: 1, H0590: 1, S0474: 1, H0546: 1, H0551: 1, H0494: 1, S0440: 1, L0663: 1, H0660: 1, H0672: 1, H0631: 1, S0028: 1, L0757: 1, S0434: 1, L0581: 1 and L0593: 1.			
HOCPX01	HOCPX01R	1409	99 - 296	3584	Glu-24 to Ser-29.	H0617: 5, L0769: 4, L0776: 4, L0751: 4, L0747: 4, L0774: 3, H0685: 2, H0657: 2, H0483: 2, H0486: 2, H0052: 2, H0674: 2, H0494: 2, L0775: 2, L0518: 2, H0682: 2, L0603: 2, H0170: 1, S6024: 1, S0116: 1, H0664: 1, H0306: 1,			
HOCPY70	HOCPY70R	1410	266 - 442	3585					

						S0420: 1, S0376: 1, S0360: 1, S0007: 1, S0300: 1, S0222: 1, S6014: 1, H0250: 1, L0021: 1, L0022: 1, S0049: 1, H0309: 1, H0150: 1, H0009: 1, S0051: 1, H0188: 1, T0006: 1, H0604: 1, H0673: 1, H0169: 1, H0087: 1, L0065: 1, L0763: 1, L0638: 1, L0773: 1, L0662: 1, L0768: 1, L0766: 1, L0649: 1, L0651: 1, L0657: 1, L0540: 1, L0783: 1, L0809: 1, L0530: 1, L0787: 1, L0789: 1, L0665: 1, S0374: 1, S0126: 1, H0684: 1, H0660: 1, H0539: 1, S0380: 1, H0576: 1, L0741: 1, L0742: 1, L0749: 1, L0750: 1, L0779: 1, L0759: 1, S0031: 1 and L0590: 1.			
HOCpz76	HOCpz76R	1411	2 - 460	3586	Pro-93 to Arg-99, Ser-143 to Val-149.				
HOCQA25	HOCQA25R	1412	352 - 543	3587	Ser-25 to Ser-30.	S0358: 45, S0360: 30,			



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H0039: 2, H0644: 2, H0617: 2, H0032: 2, H0673: 2, L0763: 2, L0646: 2, L0804: 2, L0776: 2, H0627: 2, L0777: 2, L0758: 2, L0362: 2, H0506: 2, L0615: 1, H0685: 1, H0656: 1, L0778: 1, L0785: 1, H0341: 1, H0669: 1, H0662: 1, H0402: 1, S0356: 1, T0008: 1, S0476: 1, H0351: 1, H0299: 1, H0486: 1, H0013: 1, L0021: 1, T0082: 1, H0581: 1, H0421: 1, H0235: 1, H0596: 1, L0040: 1, H0178: 1, H0563: 1, H0012: 1, H0328: 1, H0031: 1, H0068: 1, H0135: 1, T0067: 1, H0264: 1, H0488: 1, H0100: 1, H0494: 1, S0352: 1, S0448: 1, S0450: 1, H0509: 1, S0472: 1, H0647: 1, H0695: 1, L0764: 1, L0765: 1, L0767: 1, L0768: 1,
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								L0364: 1, L0766: 1, L5568: 1, L0552: 1, L0376: 1, L0653: 1, L0655: 1, L0529: 1, H0144: 1, H0520: 1, H0690: 1, H0682: 1, H0684: 1, H0435: 1, H0658: 1, S0392: 1, H0478: 1, H0626: 1, H0631: 1, L0744: 1, L0751: 1, L0749: 1, L0779: 1, L0755: 1, S0308: 1, H0707: 1, L0596: 1, L0593: 1 and S0384: 1.			
HOCQA26	HOCQA26R	1413	1 - 384	3588							
HOCQA37	HOCQA37R	1414	13 - 276	3589							
HOCQA86	HOCQA86R	1415	3 - 455	3590							
HOCQB18	HOCQB18R	1416	3 - 473	3591	Met-1 to Leu-6, Gly-19 to Lys-26, Ala-32 to Lys-38, Ala-89 to Leu-94, Gly-134 to Val-141.						
HOCQB48	HOCQB48R	1417	1 - 588	3592	Met-36 to Pro-42, Pro-49 to Thr-55, Leu-104 to Met-110, Trp-112 to Asn-117, Glu-122 to Tyr-134, Gln-142 to Ser-148, Leu-174 to Tyr-180.						

HOCQC57	HOCQC57R	1418	1 - 237	3593		L0766: 6, L0752: 5, L0794: 4, H0039: 3, H0622: 3, S0440: 3, L0770: 3, L0809: 3, H0547: 3, L0747: 3, S0356: 2, H0587: 2, H0427: 2, H0156: 2, H0015: 2, H0031: 2, L0771: 2, L0662: 2, L0768: 2, L0804: 2, L0659: 2, L0666: 2, L0664: 2, L0438: 2, H0660: 2, L0740: 2, L0754: 2, L0745: 2, L0749: 2, L0731: 2, L0593: 2, H0624: 1, H0657: 1, H0656: 1, H0370: 1, H0438: 1, T0040: 1, L0586: 1, T0114: 1, H0036: 1, S0010: 1, H0052: 1, H0545: 1, H0050: 1, H0014: 1, H0373: 1, L0163: 1, H0051: 1, H0071: 1, T0010: 1, H0030: 1, H0316: 1, H0598: 1, H0090: 1, S0038: 1, H0561: 1, H0509: 1, H0130: 1, H0633: 1, S0002: 1,		
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							L0500: 1, L0761: 1, L0764: 1, L0773: 1, L0649: 1, L0375: 1, L0805: 1, L0653: 1, L0544: 1, L0545: 1, L0792: 1, L0663: 1, L0665: 1, H0670: 1, H0666: 1, H0521: 1, L0743: 1, L0439: 1, L0777: 1, L0755: 1, L0758: 1, L0596: 1, L0589: 1, L0592: 1, H0216: 1, H0542: 1, H0423: 1 and H0352: 1.			
HOCQC71	HOCQC71R	1419	216 - 521	3594		Thr-21 to Gly-28, Lys-36 to Gly-43, Ala-73 to His-85.				
HOCQD10	HOCQD10R	1420	2 - 529	3595						
HOCQD19	HOCQD19R	1421	3 - 335	3596		Gly-70 to Gly-79.	H0556: 2, H0519: 2, S0116: 1, H0370: 1, H0063: 1, L0800: 1, L0803: 1, L0383: 1, L0789: 1, H0593: 1, H0659: 1, H0660: 1, L0777: 1 and H0665: 1.			
HOCQD38	HOCQD38R	1422	290 - 550	3597			L0748: 49, L0766: 22, H0457: 12, L0439: 12, H0581: 11, L0659: 11, L0754: 11, L0745: 10, L0662: 9, L0665: 9,			

	H0710: 9, H0556: 8, L0666: 8, H0521: 8, L0751: 8, L0758: 8, L0592: 8, H0486: 7, H0318: 7, L0774: 7, L0664: 7, S0360: 6, H0510: 6, L0731: 6, H0423: 6, H0638: 5, H0580: 5, H0427: 5, H0050: 5, H0271: 5, L0800: 5, H0670: 5, H0552: 5, L0581: 5, H0506: 5, H0402: 4, S0358: 4, H0179: 4, L0768: 4, L0803: 4, L0438: 4, H0547: 4, H0658: 4, S0328: 4, H0555: 4, H0436: 4, L0747: 4, L0750: 4, L0777: 4, L0759: 4, L0593: 4, S0134: 3, H0657: 3, H0663: 3, H0305: 3, S0420: 3, H0619: 3, H0635: 3, H0098: 3, H0575: 3, S0003: 3, H0264: 3, H0413: 3, H0623: 3, H0494: 3, H0641: 3, L0763: 3, L0667: 3, L0794: 3, L0775: 3,				
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	L0744: 2, L0740: 2, L0746: 2, L0757: 2, H0445: 2, L0591: 2, H0543: 2, H0422: 2, H0220: 1, H0222: 1, H0685: 1, S0430: 1, H0650: 1, L0808: 1, S0116: 1, S0212: 1, S0001: 1, H0662: 1, H0459: 1, S0418: 1, S0408: 1, H0393: 1, L0717: 1, H0369: 1, H0261: 1, H0392: 1, H0409: 1, H0574: 1, H0632: 1, L0623: 1, T0039: 1, T0109: 1, H0250: 1, H0036: 1, S0474: 1, T0071: 1, H0421: 1, S0049: 1, H0052: 1, H0309: 1, H0204: 1, H0597: 1, H0544: 1, H0546: 1, H0024: 1, H0200: 1, H0071: 1, T0010: 1, H0083: 1, H0355: 1, S0318: 1, S0250: 1, H0039: 1, L0483: 1, H0031: 1, H0553: 1, H0644: 1, H0182: 1, H0032: 1, H0388: 1,	
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HOCQD42	HOCQD42R	1423	1 - 315	3598	Ala-1 to Gly-8, Leu-26 to Ser-40, Pro-57 to Leu-95.	H0040: 1, H0380: 1, H0280: 1, H0560: 1, H0561: 1, L0065: 1, H0652: 1, S0426: 1, L0369: 1, L0639: 1, L0637: 1, L0772: 1, L0642: 1, L0765: 1, L0378: 1, L0805: 1, L0607: 1, L0629: 1, L0384: 1, L0647: 1, L0789: 1, L0790: 1, S0052: 1, S0216: 1, H0144: 1, H0593: 1, S0126: 1, H0689: 1, H0682: 1, H0435: 1, H0659: 1, H0660: 1, H0648: 1, H0672: 1, H0518: 1, S0152: 1, S0406: 1, H0187: 1, H0576: 1, S0392: 1, H0478: 1, H0345: 1, S0027: 1, L0756: 1, S0031: 1, H0444: 1, H0707: 1, S0434: 1, L0599: 1, S0011: 1, H0668: 1, H0667: 1, S0196: 1 and L0697: 1.		
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HOCQD45	HOCQD45R	1424	38 - 475	3599	Arg-11 to Arg-20, Glu-61 to Ser-66, Pro-114 to Ala-125.			
HOCQE35	HOCQE35R	1425	3 - 410	3600				
HOCQG94	HOCQG94R	1426	3 - 317	3601	Glu-58 to Arg-63.			
HOCQH81	HOCQH81R	1427	144 - 335	3602				
HOCQI31	HOCQI31R	1428	1 - 324	3603	Lys-21 to His-26, Arg-47 to Val-55, Ser-65 to Gly-70, Ala-76 to Gly-81.	S0126: 23, H0038: 16, S0372: 15, H0550: 12, H0031: 12, H0545: 10, L0659: 10, S0360: 9, L0662: 9, L0757: 9, L0758: 9, H0551: 8, S0322: 8, H0431: 7, L0666: 7, L0750: 7, H0486: 6, H0546: 6, S0440: 6, L0776: 6, H0549: 5, H0620: 5, L0664: 5, H0593: 5, H0672: 5, H0539: 5, S0380: 5, H0555: 5, L0747: 5, S0358: 4, S0007: 4, H0409: 4, S0010: 4, H0039: 4, H0622: 4, H0616: 4, L0769: 4, L0641: 4, L0655: 4, H0696: 4, L0731: 4, S0040: 3, S0212: 3, S0418: 3, S0045: 3, S0280: 3, H0012: 3, H0090: 3,		

L0637: 3, L0771: 3, L0775: 3, L0651: 3, L0653: 3, H0690: 3, H0660: 3, S0328: 3, S0044: 3, H0295: 2, T0049: 2, H0662: 2, S0356: 2, S0354: 2, S0376: 2, L0717: 2, H0441: 2, H0333: 2, H0574: 2, H0257: 2, H0485: 2, H0575: 2, H0251: 2, H0544: 2, L0471: 2, H0014: 2, S0051: 2, H0266: 2, H0687: 2, S0003: 2, H0328: 2, H0615: 2, T0067: 2, H0412: 2, H0059: 2, S0016: 2, H0647: 2, S0210: 2, L0598: 2, L0520: 2, L0638: 2, L0796: 2, L0772: 2, L0764: 2, L0519: 2, L0790: 2, H0519: 2, H0689: 2, H0710: 2, S0406: 2, S3014: 2, S0028: 2, S0206: 2, L0740: 2, S0031: 2, L0604: 2, L0601: 2, S0192: 2, S0342: 1, L0785: 1,					
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S0116: 1, S0298: 1, H0663: 1, S0420: 1, S0410: 1, S0468: 1, H0369: 1, H0453: 1, H0370: 1, H0392: 1, H0602: 1, H0587: 1, T0039: 1, H0013: 1, H0004: 1, H0052: 1, H0309: 1, H0046: 1, H0041: 1, H0081: 1, H0011: 1, H0049: 1, T0079: 1, H0375: 1, S0250: 1, S0214: 1, H0252: 1, H0428: 1, T0006: 1, H0032: 1, H0708: 1, H0316: 1, H0598: 1, H0400: 1, H0100: 1, H0494: 1, L0475: 1, S0014: 1, S0015: 1, H0625: 1, S0382: 1, H0646: 1, L0762: 1, L0763: 1, L0630: 1, L0646: 1, L0768: 1, L0649: 1, L0806: 1, L0656: 1, L0809: 1, L0647: 1, L0663: 1, L0665: 1, S0374: 1, H0691: 1, H0547: 1, H0682: 1, H0521: 1, S0027: 1,					
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							L0748: 1, L0756: 1, L0777: 1, L0752: 1, L0755: 1, H0343: 1, H0707: 1, L0605: 1, H0668: 1, S0196: 1 and H0506: 1.			
HOCQJ35	HOCQJ35R	1429	61 - 546	3604	Leu-16 to Pro-22, Val-30 to Asp-36.		H0046: 12, L0771: 7, L0774: 3, L0651: 3, L0806: 3, L0666: 3, L0565: 3, L0748: 3, S0444: 2, S0408: 2, H0393: 2, L0372: 2, L0662: 2, L0766: 2, L0659: 2, L0664: 2, L0744: 2, L0731: 2, H0294: 1, S0442: 1, S0278: 1, H0549: 1, L0021: 1, H0085: 1, H0234: 1, H0596: 1, H0597: 1, H0546: 1, H0024: 1, S0003: 1, H0252: 1, H0383: 1, H0674: 1, H0068: 1, H0487: 1, H0413: 1, T0069: 1, H0100: 1, H0494: 1, H0625: 1, S0352: 1, L0761: 1, L0772: 1, L0646: 1, L0800: 1, L0764: 1, L0773: 1, L0794: 1,			

							L0649: 1, L0803: 1, L0805: 1, L0653: 1, L0515: 1, L0367: 1, L0665: 1, S0374: 1, H0684: 1, H0660: 1, S0328: 1, S0044: 1, S0404: 1, L0740: 1, L0747: 1, L0757: 1, L0758: 1, S0260: 1 and S0276: 1.			
HOCQM24	HOCQM24R	1430	3 - 230	3605		Gly-2 to Gly-12, Gly-14 to Asn-28, Met-32 to Gly-49, Lys-54 to Phe-76.				
HODAF78	HODAF78R	1431	2 - 76	3606						
HODBT55	HODBT55R	1432	234 - 395	3607		Ala-1 to Ser-8.	H0328: 1 and H0435: 1.			
HODCT68	HODCT68R	1433	266 - 484	3608		Gln-1 to Pro-16.	L0493: 4, L0794: 3, H0497: 2, H0038: 2, L0766: 2, L0809: 2, L0779: 2, L0777: 2, L0759: 2, L0601: 2, H0170: 1, S0114: 1, H0341: 1, H0125: 1, S0046: 1, H0592: 1, H0587: 1, H0559: 1, H0156: 1, H0328: 1, H0616: 1, H0386: 1, H0538: 1, H0529: 1, L0769: 1, L0764: 1,			

HODCZ52	HODCZ52R	1434	2 - 139	3609		L0775: 1, L0666: 1, H0659: 1, H0518: 1, L0741: 1, L0439: 1, L0747: 1, L0593: 1, L0594: 1, H0665: 1 and H0667: 1.	AR089: 19, AR104: 18, AR060: 12, AR096: 7, AR055: 4, AR061: 3 L0751: 29, H0549: 17, H0550: 17, L0666: 9, L0747: 8, H0689: 7, H0690: 7, H0682: 7, H0615: 6, H0670: 6, H0328: 5, H0150: 4, H0660: 4, S0330: 4, S0044: 4, L0362: 4, H0597: 3, H0688: 3, L0764: 3, L0657: 3, L0809: 3, L0753: 3, L0758: 3, L0759: 3, H0431: 2, H0046: 2, T0067: 2, H0059: 2, H0647: 2, L0774: 2, L0805: 2, L0783: 2, L0438: 2, H0593: 2, H0648: 2, H0672: 2, S0328: 2, S0404: 2, L0744: 2, L0779: 2,		
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HODDI57	HODDI57R	1435	3 - 194	3610	Gly-7 to Glu-41.	S0436: 2, H0662: 1, S0442: 1, S0444: 1, S0408: 1, S0007: 1, H0461: 1, H0085: 1, H0009: 1, S0024: 1, H0188: 1, H0039: 1, H0604: 1, H0424: 1, H0169: 1, H0674: 1, L0520: 1, L5569: 1, L0803: 1, L0804: 1, L0775: 1, L0658: 1, L0634: 1, L0542: 1, L0528: 1, L2269: 1, L0663: 1, L0665: 1, H0684: 1, H0659: 1, H0658: 1, S0380: 1, S0406: 1, H0555: 1 and L0780: 1.		
						L0794: 4, L0803: 4, H0328: 3, L0779: 3, L0515: 2, L0809: 2, H0144: 2, L0754: 2, L0756: 2, L0759: 2, H0171: 1, S0282: 1, H0346: 1, S0222: 1, H0441: 1, H0486: 1, H0069: 1, H0052: 1, H0544: 1, H0266: 1, L0598: 1, L0638: 1, L0766: 1, L0650: 1,		



HODEI47	HODEJ47R	1436	11 - 295	3611	Leu-7 to Thr-16.	L0774: 1, L0805: 1, L0776: 1, L0657: 1, L0559: 1, L0659: 1, L0543: 1, L0438: 1, H0682: 1, S0328: 1, L0745: 1, L0750: 1, L0777: 1, L0752: 1, L0758: 1, H0343: 1 and H0665: 1.		
						L0754: 20, L0759: 6, L0794: 4, H0615: 3, L0438: 3, S0126: 3, S0360: 2, H0411: 2, H0050: 2, H0163: 2, S0422: 2, L0665: 2, L0748: 2, L0747: 2, L0749: 2, L0780: 2, L0755: 2, H0595: 2, L0361: 2, H0170: 1, H0686: 1, H0638: 1, S0418: 1, S0358: 1, S0376: 1, H0586: 1, H0587: 1, H0009: 1, H0024: 1, H0328: 1, H0428: 1, H0625: 1, S0210: 1, L0598: 1, L0667: 1, L0764: 1, L0662: 1, L0766: 1, L0649: 1, L0650: 1, L0805: 1, L0655: 1,		

							L0789: 1, L0663: 1, H0144: 1, S0330: 1, S0028: 1, L0751: 1, L0750: 1, L0731: 1, L0758: 1 and L0605: 1.			
HODEU42	HODEQ42R	1437	1 - 54	3612						
HODEP78	HODEP78R	1438	187 - 432	3613			L0803: 7, L0439: 4, L0663: 3, L0749: 3, H0615: 2, L0769: 2, L0794: 2, L0774: 2, L0748: 2, L0777: 2, L0752: 2, L0142: 1, H0646: 1, L0767: 1, L0804: 1, L0784: 1, L0805: 1, L0789: 1, L0666: 1, L0438: 1, H0670: 1 and L0589: 1.			
HODEQ42	HODEQ42R	1439	349 - 444	3614	Asn-1 to Ser-6, Thr-22 to Asn-32.		H0615: 1 and S0031: 1.			
HODER57	HODER57R	1440	92 - 289	3615						
HODES60	HODES60R	1441	2 - 421	3616			L0662: 2, H0615: 1, L0761: 1, L0791: 1, H0519: 1, L0752: 1 and L0758: 1.			
HODEU47	HODEU47R	1442	153 - 347	3617	Ser-1 to Ser-9, Asp-15 to Ala-21.		H0615: 2			
HODEV69	HODEV69R	1443	370 - 546	3618						
HODEW54	HODEW54R	1444	374 - 568	3619			H0328: 1 and H0615: 1.			

HODEW79	HODEW79R	1445	309 - 566	3620				
HODEX45	HODEX45R	1446	220 - 423	3621			H0615: 2 and L0532: 1.	
HODEX69	HODEX69R	1447	58 - 231	3622			H0615: 4 and L0659: 1.	
HODEX79	HODEX79R	1448	1 - 432	3623				
HODFC44	HODFC44RP 00	1449	1 - 207	3624	Ala-9 to Asp-21, Thr-31 to Arg-37.		L0747: 16, L0754: 10, L0751: 7, L0757: 7, H0657: 6, L0748: 6, L0771: 5, H0659: 5, L0740: 5, L0755: 5, H0594: 4, L0744: 4, H0341: 3, S0358: 3, S0278: 3, H0333: 3, H0615: 3, S0366: 3, L0520: 3, L0775: 3, L0517: 3, S0374: 3, S0328: 3, L0731: 3, H0136: 3, T0002: 2, S0218: 2, S0116: 2, S0354: 2, S0376: 2, H0637: 2, S0045: 2, H0370: 2, L0622: 2, H0156: 2, H0599: 2, H0545: 2, H0266: 2, H0039: 2, H0617: 2, H0132: 2, L0769: 2, L0665: 2, H0672: 2, H0539: 2, H0134: 2, L0756: 2, L0752: 2,	

[illegible]

							L0518: 1, L0783: 1, L0809: 1, L0666: 1, L0663: 1, H0144: 1, H0593: 1, H0682: 1, H0648: 1, S0044: 1, H0214: 1, L0439: 1, L0749: 1, L0750: 1, L0753: 1, H0444: 1, H0445: 1, H0595: 1, L0581: 1, L0593: 1 and H0542: 1.			
HODFD90	HODFD90R	1450	3 - 281	3625	Ser-22 to Gln-38.		L0794: 3, L0776: 2, S0358: 1, H0615: 1, H0538: 1, L0662: 1, L0803: 1, L0805: 1, L0791: 1, L0663: 1, S0374: 1, H0658: 1 and L0758: 1.			
HODFE81	HODFE81R	1451	296 - 433	3626						
HODFI68	HODFI68R	1452	293 - 409	3627			L0766: 2, H0328: 1 and H0615: 1.			
HODFJ14	HODFJ14R	1453	2 - 259	3628	Phe-45 to Tyr-60, Arg-67 to Glu-74.					
HODFJ52	HODFJ52R	1454	97 - 225	3629	Pro-18 to Pro-23, Pro-37 to Val-42.		H0328: 1 and H0615: 1.			
HODFK30	HODFK30RA	1455	1 - 69	3630						
HODFK89	HODFK89R	1456	16 - 324	3631	Lys-69 to Asp-81.					
HODFL50	HODFL50R	1457	1 - 165	3632			H0615: 2, H0370: 1, H0328: 1 and L0749: 1.			

HODFL75	HODFL75R	1458	304 - 393	3633	Ala-2 to Trp-9.			
HODFO16	HODFO16R	1459	251 - 565	3634			H0615: 2	
HODFO64	HODFO64R	1460	1 - 195	3635	Glu-12 to Gly-27, Gln-37 to Tyr-49.		L0666: 3, H0615: 2, S0116: 1, H0675: 1, H0012: 1, L0055: 1, S0438: 1, L0763: 1, L0667: 1, L0649: 1, L0803: 1, L0804: 1, L0659: 1, H0689: 1, H0659: 1, L0752: 1 and S0026: 1.	
HODFP51	HODFP51R	1461	11 - 439	3636	His-33 to Leu-39, Gly-49 to Glu-56, Ser-60 to Lys-143.			
HODFQ19	HODFQ19R	1462	1 - 519	3637	Leu-33 to Val-40, Lys-144 to Glu-152.			
HODFQ37	HODFQ37R	1463	2 - 535	3638	His-1 to Lys-12, Gln-17 to Leu-27, Val-69 to Asp-76, Asp-122 to Trp-128, Asp-141 to Glu-146, Ser-155 to His-164.			
HODFR72	HODFR72R	1464	84 - 512	3639			H0615: 2	
HODFU24	HODFU24R	1465	372 - 695	3640				
HODFU78	HODFU78R	1466	2 - 130	3641				
HODFV22	HODFV22R	1467	291 - 467	3642	Pro-1 to Asp-7.			
HODFV60	HODFV60R	1468	7 - 168	3643			H0328: 1, H0615: 1 and L0365: 1.	
HODFV69	HODFV69R	1469	64 - 210	3644			H0615: 3, H0693: 2,	

							H0266: 1, S0002: 1, L0790: 1, H0547: 1, S0152: 1, H0521: 1, H0696: 1, L0366: 1, S0194: 1 and S0276: 1.			
HODFV79	HODFV79R	1470	360 - 623	3645						
HODFV82	HODFV82R	1471	14 - 154	3646						
HODFV95	HODFV95R	1472	587 - 718	3647						
HODFY38	HODFY38R	1473	22 - 309	3648	Lys-8 to Tyr-26, Thr-67 to Met-73.		H0615: 2, S0444: 1, L0438: 1 and L0439: 1.			
HODGA29	HODGA29R	1474	186 - 308	3649	Val-1 to Ser-9, Gln-22 to Ser-29.					
HODGB69	HODGB69R	1475	3 - 95	3650						
HODGB78	HODGB78R	1476	91 - 225	3651	Thr-14 to Asn-19.					
HODGE22	HODGE22R	1477	129 - 407	3652						
HODGH30	HODGH30R	1478	25 - 132	3653	Thr-7 to Ser-14, Pro-28 to Gly-36.					
HODGH43	HODGH43R	1479	36 - 128	3654	His-8 to Gly-18, Phe-25 to Gly-30.					
HODGH65	HODGH65R	1480	2 - 166	3655			H0615: 2			
HODGL65	HODGL65R	1481	127 - 300	3656			L0754: 2, L0756: 2, H0615: 1, L0438: 1 and L0747: 1.			
HODGN53	HODGN53R	1482	2 - 583	3657	Lys-1 to Thr-7, Ser-13 to Arg-33, Val-56 to Lys-63, Phe-143 to Thr-148.		L0741: 4, H0615: 2, L0769: 2, L0793: 2, H0328: 1, S0144: 1, L0794: 1, L0499: 1, L0805: 1, L0438: 1 and L0755: 1			

HODGO02	HODGO02R	1483	361 - 561	3658				
HODGO09	HODGO09R	1484	1 - 348	3659			H0615: 2 and L0779: 1.	
HODGO21	HODGO21R	1485	2 - 193	3660	Glu-23 to Val-28, Arg-56 to Ser-64.			
HODGP53	HODGP53R	1486	1 - 198	3661				
HODGQ52	HODGQ52R	1487	9 - 131	3662				
HODGS83	HODGS83R	1488	205 - 354	3663				
HODGW91	HODGW91R	1489	182 - 3	3664	Lys-1 to Gly-12, Pro-25 to Thr-37, Ser-46 to Gly-51.			
HODGX46	HODGX46R	1490	358 - 513	3665			H0615: 3 and L0766: 1.	
HODGX91	HODGX91R	1491	219 - 572	3666				
HODGY90	HODGY90R	1492	379 - 573	3667				
HODGZ63	HODGZ63R	1493	1 - 504	3668	Pro-30 to Asn-35, Arg-39 to Asn-57, Ser-62 to Ile-67, Glu-73 to Arg-81, Lys-89 to Lys-99.		L0805: 19, L0794: 13, L0766: 12, L0740: 11, L0747: 11, L0779: 11, L0803: 8, H0521: 7, L0439: 7, L0731: 7, L0605: 7, S0474: 6, S0422: 6, L0769: 6, L0776: 5, L0665: 5, L0748: 5, L0758: 5, H0618: 4, S0010: 4, L0771: 4, L0789: 4, S3014: 4, H0341: 3, H0615: 3, L0659: 3, S0052: 3, L0438: 3,	



	H0658: 3, H0436: 3, L0752: 3, L0759: 3, S0360: 2, S0222: 2, H0574: 2, H0599: 2, H0196: 2, H0050: 2, H0266: 2, H0708: 2, H0135: 2, H0038: 2, H0616: 2, L0804: 2, H0144: 2, S0374: 2, L0352: 2, H0682: 2, L0743: 2, L0744: 2, L0751: 2, L0749: 2, L0756: 2, S0424: 2, H0624: 1, T0002: 1, H0657: 1, L0785: 1, H0671: 1, S0442: 1, S0408: 1, H0733: 1, S0278: 1, H0431: 1, H0013: 1, S0280: 1, H0581: 1, S0049: 1, H0052: 1, H0251: 1, L0040: 1, H0123: 1, L0471: 1, H0630: 1, H0375: 1, S0003: 1, H0252: 1, L0483: 1, T0006: 1, H0644: 1, H0673: 1, S0036: 1, H0163: 1, H0040: 1, H0551: 1, H0412: 1, H0413: 1, S0038: 1,					
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									H0509: 1, H0131: 1, S0344: 1, L0598: 1, L0369: 1, L0763: 1, L0770: 1, L0638: 1, L0667: 1, L0662: 1, L0363: 1, L0768: 1, L0775: 1, L0375: 1, L0806: 1, L0653: 1, L0655: 1, L0809: 1, S0126: 1, H0689: 1, H0684: 1, H0660: 1, H0672: 1, H0710: 1, H0522: 1, S0146: 1, S3012: 1, S0027: 1, S0028: 1, L0745: 1, L0750: 1, L0780: 1, L0753: 1, H0445: 1, L0362: 1, L0361: 1, H0653: 1, H0423: 1 and H0506: 1.			
HODGZ76	HODGZ76R	1494	12 - 179	3669								
HODHD23	HODHD23R	1495	3 - 134	3670	Pro-8 to Asn-18, Gln-25 to Glu-30.							
HODHD64	HODHD64R	1496	14 - 205	3671	Tyr-33 to Tyr-38.	H0615: 2						
HODHE36	HODHE36R	1497	190 - 366	3672		H0328: 1 and H0615: 1.						
HODHE54	HODHE54R	1498	3 - 515	3673	Glu-7 to Tyr-12, Glu-44 to Asp-49, Pro-57 to Gly-64, Leu-69 to Arg-74,							

HODHE88	HODHE88R	1499	2 - 166	3674	Thr-76 to Tyr-86. Lys-42 to Asp-48.	H0328: 1 and H0615: 1.		
HODHG56	HODHG56R	1500	82 - 300	3675	Glu-11 to Trp-17, Val-22 to Ser-29, Asp-45 to Lys-52.			
HODHJ56	HODHJ56R	1501	281 - 499	3676	Trp-12 to Ile-18, Gln-40 to Leu-54.			
HODHK82	HODHK82R	1502	71 - 238	3677	Lys-17 to Ala-24.			
HODHK86	HODHK86R	1503	2 - 292	3678	Glu-1 to Gln-7, Met-64 to Gly-69.			
HODIG29	HODIG29R	1504	2 - 115	3679				
HODJL36	HODJL36RA	1505	218 - 472	3680	Lys-9 to Ser-15, Val-42 to Thr-50.	H0261: 1 and H0615: 1.		
HODJZ09	HODJZ09R	1506	31 - 594	3681	Phe-116 to Met-126.	AR104: 14, AR096: 13, AR089: 11, AR060: 10, AR055: 6, AR061: 5 H0615: 3, H0658: 2, H0661: 1 and L0355: 1.		
HODKB19	HODKB19R	1507	504 - 746	3682				
HODKB82	HODKB82R	1508	3 - 344	3683	Gln-40 to Glu-48, Phe-68 to Arg-77, Ile-108 to Glu-113.			
HODKB89	HODKB89R	1509	73 - 216	3684				
HODKB93	HODKB93R	1510	1 - 159	3685	Arg-33 to Thr-38.			
HODKC29	HODKC29R	1511	1 - 486	3686		S0360: 9, L0642: 5, L0752: 5, L0662: 4, L0659: 4, L0666: 4,		

				S0007: 3, L0646: 3, L0776: 3, L0750: 3, H0662: 2, S0444: 2, S0222: 2, L0483: 2, L0764: 2, L0648: 2, L0775: 2, L0665: 2, H0648: 2, L0779: 2, S0031: 2, S0110: 1, H0638: 1, S0418: 1, S0376: 1, S0408: 1, L0717: 1, H0331: 1, H0574: 1, S0414: 1, H0492: 1, H0156: 1, L0021: 1, S0049: 1, H0310: 1, H0327: 1, H0373: 1, T0010: 1, S6028: 1, H0615: 1, S0366: 1, S0036: 1, H0038: 1, H0616: 1, H0413: 1, T0041: 1, H0494: 1, S0438: 1, S0440: 1, H0509: 1, S0142: 1, S0210: 1, L0598: 1, L0762: 1, L0640: 1, L0631: 1, L0772: 1, L0766: 1, L0551: 1, L0774: 1, L0664: 1, H0547: 1, S0126: 1, H0659: 1, S0378: 1, S0152: 1,	
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									H0696: 1, S3014: 1, L0439: 1, L0740: 1, L0754: 1, L0756: 1, L0780: 1, L0755: 1, L0758: 1, S0434: 1 and H0667: 1.			
HODKC67	HODKC67R	1512	242 - 373	3687					H0615: 2			
HODKD20	HODKD20R	1513	43 - 213	3688			Arg-11 to Ser-17, Leu-51 to Pro-57.					
HODKD64	HODKD64R	1514	413 - 237	3689			Pro-5 to Asn-10.		H0615: 2 and H0696: 1.			
HODKE85	HODKE85R	1515	314 - 412	3690			Ser-18 to Ile-23.		H0615: 2 and H0328: 1.			
HODKF91	HODKF91R	1516	244 - 417	3691			Lys-12 to Ser-18.					
HODKG09	HODKG09R	1517	28 - 240	3692								
HODKJ77	HODKJ77R	1518	452 - 595	3693					H0615: 2			
HODKK26	HODKK26R	1519	2 - 415	3694			Asp-40 to Gly-45, Leu-59 to Glu-67, Lys-95 to Ile-105, Asp-113 to Gly-118.					
HODKK40	HODKK40R	1520	1 - 642	3695			Ser-15 to Phe-23, Lys-41 to Tyr-46, Pro-48 to Val-59, Thr-90 to Ile-103, Ser-110 to Arg-116, Pro-123 to Lys-137, Lys-157 to Glu-167, Arg-178 to Arg-194.					
HODKK73	HODKK73R	1521	3 - 344	3696			Phe-106 to Pro-114.					

HODKK77	HODKK77R	1522	272 - 433	3697	Ser-8 to Asn-15.	H0615: 2		
HODKL56	HODKL56R	1523	439 - 579	3698				
HODKM25	HODKM25R	1524	36 - 149	3699				
HODKM31	HODKM31R	1525	1 - 210	3700				
HODKN65	HODKN65R	1526	2 - 409	3701				
HOECR39	HOECR39R	1527	20 - 328	3702		H0659: 4, L0770: 3, L0747: 3, H0663: 2, S0360: 2, L0521: 2, L0776: 2, S0126: 2, H0658: 2, S0406: 2, L0755: 2, L0758: 2, L0759: 2, S0242: 2, T0002: 1, H0686: 1, H0341: 1, L0616: 1, S0354: 1, S0408: 1, H0052: 1, H0009: 1, H0083: 1, H0266: 1, H0615: 1, L0483: 1, H0040: 1, H0561: 1, S0422: 1, L0520: 1, L0625: 1, L0662: 1, L0766: 1, L0649: 1, L0519: 1, H0648: 1, S3014: 1, L0748: 1 and L0779: 1.		
HOFAB77	HOFAB77R	1528	1 - 399	3703	Glu-10 to Ala-26, Lys-31 to Tyr-43, Lys-45 to Glu-50, Ile-96 to Lys-102, Asp-123 to Gly-128.			

HOFMF37	HOFMF37R	1529	95 - 277	3704					
HOFMF79	HOFMF79RA	1530	85 - 219	3705					
HOFMJ88	HOFMJ88R	1531	2 - 397	3706	Arg-1 to Phe-16.				
HOFMJ93	HOFMJ93R	1532	1 - 162	3707	His-3 to Ala-19.				
HOFMM84	HOFMM84R	1533	1 - 204	3708					
HOFMN93	HOFMN93R	1534	69 - 323	3709	Glu-8 to Thr-14.	H0415: 2			
HOFMP59	HOFMP59R	1535	1 - 423	3710	Ala-5 to Arg-14.				
HOFMT68	HOFMT68R	1536	50 - 289	3711	Asn-41 to Lys-56.				
HOFMT69	HOFMT69R	1537	1 - 264	3712					
HOFMU92	HOFMU92R	1538	1 - 369	3713					
HOFMV06	HOFMV06R	1539	3 - 296	3714	Asp-1 to Leu-10.				
HOFNF63	HOFNF63R	1540	2 - 481	3715	Arg-1 to Arg-8, Ala-22 to Met-31, Asp-51 to Gln-56.	H0415: 2			
HOFNF76	HOFNF76R	1541	2 - 421	3716	Arg-1 to Ala-6, Ser-68 to Arg-73, Arg-87 to Ala-93.				
HOFNG51	HOFNG51R	1542	25 - 387	3717	Arg-1 to Cys-10, Glu-75 to Arg-94, Arg-99 to Gly-115.				
HOFNK44	HOFNK44R	1543	1 - 186	3718	Lys-52 to Asp-57.				
HOFNY53	HOFNY53R	1544	2 - 232	3719	Arg-1 to Phe-7, Gly-24 to Arg-36.				
HOF0B65	HOF0B65R	1545	1 - 453	3720					
HOF0B79	HOF0B79RP 00A	1546	2 - 682	3721	Val-31 to Val-38, Phe-46 to Ile-59, Arg-120 to Gln-126.				
HOF0E22	HOF0E22R	1547	1 - 345	3722					
HOF0F47	HOF0F47R	1548	3 - 326	3723	Asn-49 to Leu-54.				

HOF56	HOF56R	1549	1 - 351	3724	Ala-4 to Arg-11.			
HOGAC46	HOGAC46R	1550	35 - 193	3725	Ala-1 to Tyr-6, Ile-17 to Ser-32.			
HOGAQ03	HOGAQ03R	1551	110 - 286	3726	Pro-34 to Lys-39.	H0436: 44, L0748: 14, L0439: 9, L0747: 9, L0769: 7, L0803: 7, L0740: 7, L0755: 7, L0758: 7, L0761: 6, L0662: 6, L0794: 6, L0766: 6, L0663: 6, L0779: 6, H0542: 6, L0717: 5, L0756: 5, H0052: 4, H0135: 4, L0774: 4, L0659: 4, L0665: 4, L0777: 4, L0780: 4, L0731: 4, L0759: 4, H0556: 3, S0420: 3, S0410: 3, S0422: 3, L0763: 3, L0649: 3, L0804: 3, L0805: 3, L0776: 3, L0438: 3, H0547: 3, H0672: 3, H0539: 3, L0754: 3, L0757: 3, L0591: 3, H0422: 3, S0040: 2, S0114: 2, S0116: 2, H0255: 2, H0619: 2, H0486: 2, T0039: 2, H0013: 2, H0635: 2, H0253: 2,		



H0318: 2, S0049: 2, H0046: 2, L0041: 2, H0688: 2, H0428: 2, H0628: 2, L0055: 2, H0040: 2, H0087: 2, H0488: 2, H0100: 2, T0042: 2, H0529: 2, L5566: 2, L0667: 2, L0771: 2, L0768: 2, L0375: 2, L0517: 2, L0809: 2, L0666: 2, H0520: 2, H0519: 2, H0593: 2, S0380: 2, H0694: 2, L0742: 2, L0751: 2, L0750: 2, S0434: 2, S0436: 2, L0361: 2, L0601: 2, L0603: 2, S0424: 2, H0506: 2, H0265: 1, H0650: 1, H0657: 1, H0656: 1, L0760: 1, H0341: 1, S0001: 1, H0663: 1, H0662: 1, S0418: 1, S0356: 1, S0408: 1, H0580: 1, S0007: 1, H0229: 1, S0045: 1, S0046: 1, S0132: 1, H0351: 1, H0411: 1, H0431: 1, H0592: 1, H0497: 1,					
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HOGBE60	HOGBE60R	1552	265 - 591	3727	Asp-15 to His-22.	S0378: 1, S0152: 1, S0406: 1, H0555: 1, H0678: 1, L0744: 1, L0752: 1, L0753: 1, H0445: 1, H0707: 1, L0593: 1, L0595: 1, S0011: 1, H0668: 1, S0026: 1, H0665: 1, S0196: 1, H0543: 1 and H0677: 1.		
						L0777: 7, L0747: 6, L0779: 6, L0748: 5, L0776: 4, L0749: 4, L0770: 3, L0766: 3, L0759: 3, S0442: 2, L0769: 2, L0761: 2, L0771: 2, L0774: 2, L0527: 2, L0783: 2, L0665: 2, L0757: 2, L0758: 2, S0412: 2, H0402: 1, S0444: 1, H0438: 1, H0587: 1, H0333: 1, L0471: 1, H0674: 1, H0646: 1, L0763: 1, L0643: 1, L0764: 1, L0662: 1, L0363: 1, L0767: 1, L0387: 1, L0803: 1, L0526: 1, L0647: 1, L0663: 1, H0690: 1,		

									H0435: 1, S0330: 1, S0406: 1, L0740: 1, L0751: 1, L0780: 1, S0436: 1 and L0596: 1.			
HOGCF48	HOGCF48R	1553	230 - 436	3728								
HOGCG83	HOGCG83R	1554	50 - 409	3729								
HOGCH23	HOGCH23R	1555	58 - 207	3730								
HOGCI28	HOGCI28R	1556	3 - 332	3731					H0435: 4, H0726: 3, L0748: 3, H0355: 2, H0059: 2, L0525: 2, H0713: 1, H0717: 1, H0586: 1, H0427: 1, H0575: 1, H0744: 1, H0327: 1, H0271: 1, H0622: 1, H0087: 1, S0438: 1, L0792: 1, H0593: 1, H0555: 1, L0698: 1 and H0506: 1.			
HOGCI10	HOGCI10R	1557	10 - 480	3732					H0052: 1, H0135: 1, H0429: 1, H0519: 1 and H0435: 1.			
HOGCJ42	HOGCJ42R	1558	3 - 254	3733				Val-6 to Ala-11.				
HOGCJ55	HOGCJ55R	1559	7 - 507	3734				Thr-56 to Glu-61, Lys-87 to Lys-95, Thr-110 to Arg-118.				
HOGCP07	HOGCP07R	1560	3 - 143	3735								
HOGCP86	HOGCP86RA	1561	1 - 486	3736				Arg-11 to Arg-16, Pro-46 to Thr-52, His-58 to Pro-65.				

							Ala-71 to Trp-77, Pro-134 to Gly-146.			
HOGCT44	HOGCT44R	1562		1 - 183	3737		His-14 to Phe-20, Ser-37 to Gly-60.			
HOGCV85	HOGCV85R	1563		3 - 443	3738		Gly-20 to Leu-28, Val-33 to Gly-41, Thr-43 to Gly-55, Val-58 to Arg-66.			
HOGCV93	HOGCV93R	1564		22 - 513	3739		Lys-7 to Thr-13, Asp-24 to Thr-30, Gly-39 to Glu-52, Leu-70 to Arg-76, Phe-87 to Tyr-92.			
HOGCY12	HOGCY12R	1565		2 - 235	3740		Lys-2 to Thr-8, Asp-19 to Thr-25, Gly-34 to Glu-47, Leu-65 to Arg-71.			
HOGCY58	HOGCY58R	1566		3 - 338	3741		Asn-5 to Gln-12, Gln-19 to Glu-25, Arg-78 to Glu-99, Thr-106 to Ala-111.			
HOGCY74	HOGCY74R	1567		3 - 260	3742		Arg-1 to Asn-8, Phe-18 to His-24, Asp-57 to Lys-62, Lys-76 to Asp-81.			
HOGDD29	HOGDD29R	1568		3 - 152	3743					
HOGDE77	HOGDE77R	1569		95 - 184	3744					
HOGDG03	HOGDG03R	1570		2 - 397	3745		Thr-9 to His-19, Leu-35 to Ala-46.			

HOGDG76	HOGDG76R	1571	3 - 497	3746	Pro-55 to Pro-60, Gly-69 to Arg-74.	L0665: 3, H0682: 2, H0435: 2, L0751: 2, H0663: 1, L0021: 1, H0647: 1, L0806: 1, L0664: 1, H0683: 1, H0670: 1 and H0660: 1.			
HOGDI44	HOGDI44R	1572	1 - 342	3747	Gln-58 to Gln-64, Cys-73 to Arg-88.				
HOGDI49	HOGDI49R	1573	124 - 357	3748					
HOGDO25	HOGDO25R	1574	2 - 322	3749	Pro-38 to Met-44.				
HOGDO58	HOGDO58R	1575	74 - 244	3750	Pro-6 to Tyr-17, Val-39 to Gln-45.				
HOGDPI0	HOGDPI0R	1576	3 - 299	3751	Glu-3 to Glu-14.				
HOGDQ54	HOGDQ54R	1577	3 - 335	3752					
HOGDQ95	HOGDQ95R	1578	22 - 492	3753	Arg-9 to Val-17.				
HOGDR70	HOGDR70R	1579	48 - 470	3754	Arg-9 to Arg-18, Arg-27 to Arg-35, Arg-47 to Asp-55, Asp-78 to Lys-83.				
HOGDV93	HOGDV93R	1580	1 - 417	3755	Gly-1 to Ala-6, Glu-54 to Ile-62, Asp-89 to Thr-98.				
HOGEA27	HOGEA27R	1581	2 - 241	3756					
HOGED85	HOGED85R	1582	3 - 326	3757	Tyr-94 to Phe-99.				
HOG EK25	HOG EK25R	1583	2 - 325	3758					
HOGEN30	HOGEN30R	1584	2 - 325	3759	Leu-3 to Arg-19.				
HOGEN55	HOGEN55R	1585	2 - 226	3760					

HOGEP46	HOGEP46R	1586	3 - 212	3761	Gly-17 to Asn-27, Ser-51 to His-61.	L0521: 1, L0662: 1 and H0435: 1.		
HOGEP69	HOGEP69R	1587	2 - 223	3762		H0295: 8, H0617: 7, L0665: 7, H0435: 7, H0592: 6, H0494: 6, L0439: 6, L0751: 6, S0360: 5, S0046: 4, H0587: 4, H0012: 4, H0264: 4, L0662: 4, S0406: 4, H0586: 3, H0620: 3, H0031: 3, H0551: 3, S0440: 3, S0002: 3, L0763: 3, L0648: 3, L0649: 3, L0774: 3, L0659: 3, H0520: 3, H0547: 3, H0689: 3, H0660: 3, S0328: 3, S0330: 3, L0748: 3, L0754: 3, L0750: 3, H0294: 2, H0650: 2, H0341: 2, S0356: 2, S0132: 2, H0370: 2, H0333: 2, H0643: 2, L0623: 2, H0706: 2, H0081: 2, H0039: 2, H0553: 2, H0181: 2, H0068: 2, H0135: 2, H0040: 2, H0646: 2, L0640: 2,		
HOGEP60	HOGEP60R	1588	2 - 376	3763				

					L0637: 2, L0641: 2, L0764: 2, L0804: 2, L0806: 2, L0776: 2, L0657: 2, L0809: 2, L0664: 2, H0519: 2, H0682: 2, H0670: 2, H0672: 2, L0744: 2, L0740: 2, S0434: 2, H0677: 2, H0483: 1, H0305: 1, H0638: 1, S0442: 1, S0358: 1, S0376: 1, S0410: 1, H0411: 1, H0550: 1, H0455: 1, H0600: 1, H0101: 1, H0575: 1, H0590: 1, H0618: 1, H0052: 1, H0234: 1, H0597: 1, H0121: 1, L0041: 1, H0123: 1, H0246: 1, H0290: 1, H0292: 1, H0428: 1, H0622: 1, T0023: 1, H0030: 1, H0316: 1, H0059: 1, H0100: 1, S0306: 1, T0090: 1, H0649: 1, S0210: 1, S0426: 1, L0646: 1, L0765: 1, L0771: 1, L0626: 1, L0768: 1, L0364: 1, L0766: 1,	
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							L0375: 1, L0651: 1, L0378: 1, L0653: 1, L0655: 1, L0558: 1, L0635: 1, L0518: 1, L0383: 1, L0792: 1, L0663: 1, S0006: 1, H0696: 1, S0044: 1, S3014: 1, L0743: 1, L0752: 1, L0755: 1, L0731: 1, L0759: 1, H0216: 1, H0543: 1, S0424: 1 and H0506: 1.			
H0GEU84	H0GEU84R	1589	3 - 368	3764	Pro-8 to Asn-34, Ala-39 to Arg-53.		AR096: 1, AR104: 1, AR055: 0, AR061: 0, AR060: 0, AR089: 0 S0250: 1 and H0435: 1.			
H0GEW58	H0GEW58R	1590	1 - 417	3765						
H0GEW72	H0GEW72R	1591	256 - 333	3766						
H0GEZ03	H0GEZ03R	1592	52 - 144	3767						
H0GEZ27	H0GEZ27R	1593	2 - 307	3768						
HOHDI15	HOHDI15R	1594	3 - 170	3769						
HOHOB44	HOHOB44R	1595	128 - 313	3770	Ser-1 to Gln-6, Ser-51 to Thr-56.					
HOOHC27	HOOHC27R	1596	9 - 194	3771	Gly-4 to Lys-10.					
HOOHJ69	HOOHJ69R	1597	9 - 152	3772	Gly-4 to Lys-10.		H0637: 2, H0413: 1 and H0648: 1.			
HOCHK47	HOCHK47R	1598	126 - 260	3773						
HOOHL15	HOOHL15R	1599	60 - 383	3774						
HOOHL19	HOOHL19R	1600	14 - 205	3775	Pro-17 to Ser-24.					

HOOHL68	HOOHL68R	1601	271 - 570	3776		L0748: 11, L0666: 5, L0750: 5, L0805: 4, L0663: 4, L0664: 4, L0439: 4, L0662: 3, L0758: 3, L0005: 2, H0587: 2, H0318: 2, H0052: 2, H0024: 2, H0553: 2, L0770: 2, L0648: 2, L0766: 2, L0497: 2, L0665: 2, H0519: 2, H0648: 2, L0740: 2, L0731: 2, L0593: 2, H0677: 2, H0170: 1, H0583: 1, H0638: 1, H0586: 1, H0331: 1, H0486: 1, H0013: 1, H0156: 1, H0036: 1, L0040: 1, H0620: 1, S6028: 1, H0328: 1, H0615: 1, T0023: 1, S0036: 1, H0591: 1, H0040: 1, T0067: 1, S0472: 1, H0529: 1, L0761: 1, L0764: 1, L0771: 1, L0649: 1, L0803: 1, L0804: 1, L0775: 1, L0806: 1, L0655: 1, L0657: 1, L0659: 1, L0790: 1, H0144: 1,		
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							L0438: 1, H0672: 1, H0522: 1, S0392: 1, L0747: 1, L0749: 1, L0756: 1, L0752: 1, H0445: 1, L0591: 1 and H0422: 1.			
HOOHP84	HOOHP84R	1602	1 - 186	3777						
HOOHQ09	HOOHQ09R	1603	161 - 313	3778	Lys-1 to Lys-13.					
HOOHQ83	HOOHQ83R	1604	67 - 399	3779	Pro-10 to Ser-37, Gln-41 to Thr-57, Arg-62 to Thr-68, Pro-80 to Lys-85, Gly-99 to Gly-106.					
HOOHR81	HOOHR81R	1605	336 - 500	3780						
HOOHS67	HOOHS67R	1606	69 - 281	3781						
HOOHS82	HOOHS82R	1607	53 - 145	3782						
HOOHT13	HOOHT13R	1608	3 - 194	3783	Glu-1 to Glu-11.					
HOOHX50	HOOHX50R	1609	17 - 163	3784						
HOOIA46	HOOIA46R	1610	3 - 239	3785			L0770: 12, H0657: 10, H0659: 9, L0776: 8, H0648: 8, L0755: 8, L0774: 7, S0410: 6, H0494: 6, L0769: 6, L0750: 6, S0408: 5, S0440: 5, L0775: 5, S0376: 4, S0360: 4, L0748: 4, L0777: 4, L0752: 4, L0759: 4, H0341: 3, S0358: 3,			

				H0616: 3, L0766: 3, L0740: 3, L0747: 3, L0731: 3, L0758: 3, S0026: 3, H0170: 2, H0556: 2, H0685: 2, H0656: 2, S0420: 2, S0444: 2, T0109: 2, H0156: 2, H0545: 2, L0471: 2, H0031: 2, H0040: 2, H0560: 2, L0065: 2, S0438: 2, L0763: 2, L0772: 2, L0764: 2, L0518: 2, L0783: 2, H0144: 2, S0374: 2, H0520: 2, H0658: 2, H0670: 2, L0753: 2, H0445: 2, S0434: 2, H0665: 2, S0194: 2, S0134: 1, S0116: 1, H0663: 1, L0481: 1, H0638: 1, H0125: 1, S0442: 1, H0351: 1, H0369: 1, H0550: 1, H0431: 1, H0331: 1, H0069: 1, S0346: 1, T0048: 1, S0182: 1, S0049: 1, H0563: 1, H0081: 1, H0620: 1, H0014: 1, H0373: 1, H0083: 1,	
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H00IA57	H00IA57R	1611	251 - 361	3786				H0375: 1, H0428: 1, H0708: 1, H0634: 1, H0412: 1, H0413: 1, L0475: 1, H0386: 1, L0598: 1, H0529: 1, L0520: 1, L0762: 1, L0371: 1, L0638: 1, L0373: 1, L0646: 1, L0773: 1, L0521: 1, L0662: 1, L0805: 1, L0655: 1, L0517: 1, L0540: 1, L0542: 1, L0526: 1, L0809: 1, L0545: 1, L0791: 1, L0663: 1, L0665: 1, H0691: 1, H0547: 1, H0690: 1, H0435: 1, H0660: 1, H0651: 1, S0380: 1, S0406: 1, L0749: 1, L0780: 1, H0668: 1, H0653: 1, S0242: 1, S0276: 1, H0542: 1, H0422: 1 and H0506: 1.		
H00IA57	H00IA57R	1611	251 - 361	3786				L0803: 14, L0439: 9, L0752: 9, L0666: 7, L0659: 5, S0328: 5, L0756: 5, L0731: 5, L0794: 4, S0412: 4, S0360: 3, H0634: 3,		

	S0002: 3, L0805: 3, L0809: 3, L0438: 3, H0520: 3, L0748: 3, L0740: 3, L0758: 3, H0656: 2, S0418: 2, S0358: 2, H0013: 2, H0083: 2, S0022: 2, S0386: 2, L0776: 2, H0648: 2, L0602: 2, H0521: 2, S0028: 2, L0742: 2, L0596: 2, H0423: 2, H0170: 1, H0171: 1, H0657: 1, H0341: 1, H0669: 1, H0662: 1, H0638: 1, S0420: 1, S0376: 1, H0580: 1, S0007: 1, S0132: 1, L0717: 1, H0369: 1, H0600: 1, H0587: 1, H0497: 1, H0427: 1, L0021: 1, H0575: 1, S0010: 1, H0581: 1, H0421: 1, H0263: 1, T0115: 1, H0545: 1, L0471: 1, S0051: 1, H0510: 1, H0375: 1, S0003: 1, H0328: 1, H0428: 1, H0039: 1, H0622: 1, L0483: 1, H0031: 1,					
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						H0553: 1, H0644: 1, H0628: 1, H0673: 1, S0364: 1, H0316: 1, H0598: 1, H0090: 1, H0087: 1, H0551: 1, T0067: 1, H0488: 1, H0623: 1, H0494: 1, L0475: 1, H0560: 1, H0509: 1, S0150: 1, H0641: 1, S0422: 1, S0426: 1, H0529: 1, L0770: 1, L0761: 1, L0627: 1, L0646: 1, L0773: 1, L0521: 1, L0768: 1, L0766: 1, L0527: 1, L0647: 1, L0789: 1, L0663: 1, S0428: 1, S0374: 1, H0519: 1, H0435: 1, H0659: 1, H0672: 1, H0518: 1, H0522: 1, H0134: 1, L0356: 1, L0745: 1, L0747: 1, L0779: 1, L0759: 1, L0589: 1, L0592: 1, L0608: 1, L0594: 1, S0026: 1, H0136: 1 and S0242: 1.				
HOOIB34	HOOIB34R	1612	46 - 153	3787						
HOOIB54	HOOIB54R	1613	2 - 199	3788						

HOOIF71	HOOIF71R	1614	3 - 389	3789				
HOOIG71	HOOIG71R	1615	2 - 301	3790	Ile-1 to Lys-7, Gly-13 to Lys-19, Pro-59 to Arg-76.			
HOOIK04	HOOIK04R	1616	2 - 172	3791	Val-50 to Arg-56.			
HOOIL33	HOOIL33R	1617	97 - 264	3792	Leu-41 to Ser-52.			
HOOIO53	HOOIO53R	1618	3 - 164	3793				
HOOIR94	HOOIR94R	1619	20 - 109	3794				
HOOJA64	HOOJA64R	1620	272 - 400	3795				
HOOJB36	HOOJB36R	1621	118 - 315	3796				
HOOJE93	HOOJE93R	1622	125 - 268	3797				
HOOJK91	HOOJK91R	1623	80 - 211	3798				
HOOJN84	HOOJN84R	1624	1 - 189	3799	Asp-48 to Thr-54, Glu-57 to Ser-63.	L0758: 14, L0747: 10, L0752: 10, L0731: 10, L0663: 9, H0547: 9, L0740: 9, L0666: 8, H0046: 7, S0126: 7, L0748: 7, H0539: 6, L0439: 6, L0759: 6, L0595: 6, H0543: 6, H0050: 5, H0031: 5, H0648: 5, S0328: 5, H0624: 4, H0657: 4, H0656: 4, S0007: 4, H0549: 4, H0550: 4, H0591: 4, H0616: 4, H0551: 4, L0769: 4, L0662: 4, L0659: 4, H0144: 4, L0438: 4,		



					L0749: 4, L0750: 4, L0755: 4, H0663: 3, S0418: 3, H0619: 3, L0717: 3, H0013: 3, L0163: 3, H0553: 3, H0090: 3, L0763: 3, L0770: 3, L0766: 3, L0774: 3, L0664: 3, L0665: 3, H0519: 3, H0521: 3, L0742: 3, L0591: 3, S0276: 3, H0171: 2, H0341: 2, S0356: 2, S0360: 2, H0393: 2, S0300: 2, H0156: 2, H0150: 2, H0011: 2, H0687: 2, S0003: 2, H0328: 2, L0483: 2, H0634: 2, H0494: 2, H0560: 2, H0561: 2, H0646: 2, L0638: 2, L0646: 2, L0374: 2, L0764: 2, L0776: 2, L0655: 2, L0657: 2, H0520: 2, H0660: 2, H0134: 2, L0605: 2, L0593: 2, H0542: 2, S6024: 1, H0583: 1, S0116: 1, H0483: 1, S0420: 1, S0358: 1, S0408: 1,		
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	H0580: 1, S0045: 1, H0440: 1, H0431: 1, T0104: 1, H0600: 1, H0632: 1, H0559: 1, H0485: 1, H0069: 1, S0280: 1, L0021: 1, H0042: 1, H0706: 1, H0505: 1, H0581: 1, H0421: 1, H0052: 1, L0471: 1, S0051: 1, H0266: 1, H0267: 1, S0316: 1, H0028: 1, H0252: 1, H0615: 1, H0644: 1, H0169: 1, H0598: 1, H0163: 1, H0038: 1, H0372: 1, H0412: 1, H0413: 1, H0623: 1, T0004: 1, S0372: 1, S0448: 1, S0440: 1, S0150: 1, S0344: 1, S0422: 1, L0598: 1, L0369: 1, L0520: 1, L0762: 1, L0761: 1, L0648: 1, L0521: 1, L0363: 1, L0649: 1, L0650: 1, L0523: 1, L0806: 1, L0653: 1, L0606: 1, L0661: 1, L0527: 1, L0809: 1, H0658: 1,				
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							H0672: 1, S0330: 1, S0152: 1, H0696: 1, S0406: 1, H0555: 1, H0478: 1, S0432: 1, L0786: 1, S0260: 1, H0445: 1, L0366: 1, S0026: 1, H0667: 1, H0423: 1, S0424: 1, S0446: 1 and H0008: 1.			
HOOJP58	HOOJP58R	1625	93 - 248	3800						
HOOJR60	HOOJR60R	1626	160 - 306	3801			H0648: 2, H0436: 2, L0748: 2, S0360: 1, L0766: 1, L0803: 1 and L0779: 1.			
HOOJR72	HOOJR72R	1627	77 - 265	3802						
HOOJS84	HOOJS84R	1628	78 - 290	3803						
HOOJT32	HOOJT32R	1629	1 - 237	3804						
HOOJT65	HOOJT65R	1630	2 - 340	3805	Ala-2 to Asp-10.					
HOOJV78	HOOJV78R	1631	318 - 560	3806			H0486: 1 and H0648: 1.			
HOOJX42	HOOJX42R	1632	317 - 463	3807						
HOOJX80	HOOJX80R	1633	106 - 267	3808	Arg-11 to Pro-22, Asn-42 to Lys-48.		L0731: 2, H0483: 1, T0007: 1, T0039: 1, H0562: 1, L0769: 1, L0766: 1, H0670: 1, H0648: 1, L0756: 1, L0755: 1, L0758: 1, L0759: 1 and L0485: 1.			
HOOJY17	HOOJY17R	1634	147 - 479	3809	Pro-8 to Phe-18.					

HOOJY41	HOOJY41R	1635	51 - 347	3810					
HOOJY44	HOOJY44R	1636	2 - 184	3811	Gln-1 to Cys-7, Asn-14 to Lys-22, Arg-29 to Leu-34, Glu-46 to Leu-54.				
HOOJY80	HOOJY80R	1637	1 - 462	3812	Ala-1 to Pro-6, Ala-22 to Glu-27, Glu-36 to Ser-45, Glu-62 to Gly-67, Gln-74 to Phe-83, Thr-90 to Ser-96, His-105 to Pro-116.				
HOOJY92	HOOJY92R	1638	3 - 437	3813		H0547: 16, H0090: 11, H0543: 10, H0542: 9, H0341: 8, L0471: 8, H0551: 8, S0358: 7, H0561: 7, S0126: 7, H0521: 7, H0657: 5, H0013: 5, S0440: 5, H0529: 5, H0144: 5, H0519: 5, H0265: 4, S0040: 4, H0264: 4, H0560: 4, H0520: 4, S0027: 4, L0731: 4, L0591: 4, L0592: 4, L0595: 4, H0423: 4, S0424: 4, H0170: 3, H0686: 3, H0638: 3, S0360: 3, S0410: 3, H0580: 3, H0486: 3,			

					H0318: 3, H0510: 3, H0266: 3, H0553: 3, H0591: 3, H0040: 3, H0634: 3, S0150: 3, L0803: 3, L0657: 3, H0435: 3, S0152: 3, L0740: 3, L0747: 3, S0436: 3, L0588: 3, H0556: 2, S0116: 2, H0663: 2, S0356: 2, S0354: 2, S0376: 2, S0046: 2, H0393: 2, H0642: 2, H0574: 2, T0109: 2, H0635: 2, S0010: 2, T0110: 2, H0012: 2, H0083: 2, S0214: 2, H0038: 2, T0041: 2, T0042: 2, H0494: 2, H0647: 2, S0422: 2, S0002: 2, L0554: 2, H0660: 2, H0518: 2, S0406: 2, L0593: 2, H0667: 2, H0624: 1, H0171: 1, H0159: 1, S0114: 1, H0656: 1, H0484: 1, H0661: 1, H0664: 1, H0450: 1, S0442: 1, S0045: 1, H0619: 1, H0550: 1, S0222: 1,	
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1255

							S0378: 1, H0696: 1, H0134: 1, H0555: 1, S0037: 1, S0206: 1, L0749: 1, S0031: 1, S0260: 1, H0445: 1, S0434: 1, L0599: 1, L0594: 1, H0422: 1 and S0456: 1.			
HOOKK83	HOOKK83R	1639	107 - 367	3814						
HOOKN43	HOOKN43R	1640	118 - 453	3815	Asp-1 to Lys-22.					
HOOKN71	HOOKN71R	1641	210 - 344	3816			H0657: 3, L0717: 2, H0421: 2, L0766: 2, L0666: 2, L0756: 2, L0759: 2, H0717: 1, H0587: 1, H0156: 1, L0021: 1, H0581: 1, H0014: 1, H0252: 1, S0422: 1, L0662: 1, L0794: 1, L0655: 1, L0809: 1, L0543: 1, L0791: 1, L0665: 1, H0658: 1, H0670: 1, H0648: 1, H0672: 1, H0696: 1, L0780: 1, S0434: 1 and H0506: 1.			
HOPJA09	HOPJA09R	1642	14 - 196	3817	Pro-20 to Gly-38.					
HOPJF95	HOPJF95R	1643	107 - 571	3818						
HOPJG60	HOPJG60R	1644	207 - 461	3819	Gly-69 to Glu-78.		L0775: 5, L0776: 5, L0747: 5, L0604: 5, L0769: 4, L0805: 4,			

HOPJG66	HOPJG66R	1645	2 - 136	3820	Pro-4 to Ser-29, Pro-31 to Ser-38.	L0777: 3, L0759: 3, L0774: 2, L0809: 2, L0758: 2, H0341: 1, H0484: 1, S0358: 1, S0444: 1, S0360: 1, S6026: 1, S0278: 1, H0156: 1, H0038: 1, H0616: 1, H0102: 1, L0770: 1, L0766: 1, L0804: 1, L0657: 1, L0789: 1, H0684: 1, H0696: 1, S0044: 1, L0756: 1 and L0780: 1.		
						H0547: 41, L0751: 26, H0520: 18, S0344: 12, L0731: 11, T0006: 9, L0794: 9, L0753: 8, L0593: 8, S0278: 6, L0809: 6, H0135: 5, S0142: 5, L0800: 5, L0665: 5, L0743: 5, L0747: 5, H0024: 4, S0328: 4, L0759: 4, H0661: 3, H0594: 3, H0617: 3, L0657: 3, H0658: 3, H0666: 3, L0750: 3, L0752: 3, H0352: 3, H0664: 2, H0662: 2, H0041: 2, H0123: 2, H0081: 2,		



	H0050: 2, H0099: 2, H0494: 2, S0002: 2, L0769: 2, L0806: 2, L0517: 2, L0382: 2, H0684: 2, H0660: 2, H0539: 2, S0152: 2, L0748: 2, L0587: 2, L0595: 2, H0294: 1, H0656: 1, H0484: 1, H0669: 1, H0208: 1, H0619: 1, H0586: 1, H0333: 1, H0427: 1, H0052: 1, H0251: 1, H0546: 1, H0545: 1, H0012: 1, H0688: 1, H0181: 1, H0606: 1, H0334: 1, H0646: 1, S0144: 1, S0426: 1, L0762: 1, L0640: 1, L0763: 1, L0637: 1, L0662: 1, L0386: 1, L0803: 1, L0804: 1, L0774: 1, L0378: 1, L0805: 1, L0629: 1, L0558: 1, L0659: 1, L0783: 1, L0791: 1, H0689: 1, H0648: 1, S0330: 1, S0332: 1, H0436: 1, H0540: 1, S0028: 1, L0744: 1,					
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							L0755: 1, L0757: 1, L0758: 1 and S0276: 1.			
HOPJG79	HOPJG79R	1646	3 - 542	3821		Ala-83 to Arg-91, Trp-99 to Tyr-105, Tyr-123 to Glu-128.				
HOPJG89	HOPJG89R	1647	166 - 597	3822		Gly-2 to Ala-13.				
HOPJH17	HOPJH17R	1648	321 - 464	3823						
HOPJH38	HOPJH38R	1649	148 - 285	3824			S0412: 22, L0662: 19, L0777: 14, S0010: 11, S0222: 9, S6028: 9, L0750: 9, T0010: 8, L0659: 8, L0747: 8, L0756: 8, L0663: 7, L0439: 7, H0051: 6, L0518: 6, L0754: 6, L0752: 6, S0280: 5, H0575: 5, S0358: 4, S0346: 4, L0753: 4, H0170: 3, H0662: 3, S0360: 3, H0427: 3, L0471: 3, H0373: 3, L0638: 3, L0637: 3, L0764: 3, L0774: 3, L0809: 3, L0666: 3, S0310: 3, H0672: 3, H0696: 3, L0731: 3, H0506: 3, H0713: 2, S0408: 2, H0411: 2, H0455: 2, H0574: 2, S0414: 2, H0486: 2,			

	H0036: 2, S0049: 2, H0052: 2, H0327: 2, H0687: 2, H0428: 2, H0553: 2, H0644: 2, H0038: 2, L0520: 2, L0762: 2, L0770: 2, L0653: 2, L0517: 2, S0044: 2, L0442: 1, H0583: 1, L0443: 1, S0110: 1, S0282: 1, S0400: 1, H0661: 1, S0348: 1, S0356: 1, S0444: 1, H0329: 1, S0007: 1, H0619: 1, S6026: 1, S0300: 1, L0717: 1, S6022: 1, H0550: 1, H0592: 1, H0587: 1, H0599: 1, H0042: 1, H0590: 1, H0318: 1, H0309: 1, H0545: 1, H0563: 1, H0564: 1, H0123: 1, H0019: 1, S0050: 1, L0163: 1, S0388: 1, H0356: 1, H0328: 1, H0688: 1, H0039: 1, T0023: 1, H0031: 1, H0111: 1, H0169: 1, S0364: 1, L0455: 1, H0135: 1, H0163: 1,	
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							T0067: 1, T0069: 1, T0004: 1, H0100: 1, S0112: 1, L0370: 1, L0598: 1, L0769: 1, L0630: 1, L0800: 1, L0648: 1, L0363: 1, L0768: 1, L0649: 1, L0803: 1, L0775: 1, L0375: 1, L0651: 1, L0784: 1, L0523: 1, L0805: 1, L0776: 1, L0527: 1, L0657: 1, L0635: 1, L0783: 1, L0789: 1, L0532: 1, L0664: 1, H0691: 1, T0068: 1, S0148: 1, H0693: 1, H0520: 1, H0593: 1, H0689: 1, H0684: 1, S0330: 1, S0380: 1, S0174: 1, H0555: 1, L0612: 1, L0743: 1, L0748: 1, L0751: 1, L0749: 1, L0779: 1, L0759: 1, L0689: 1, S0434: 1, L0604: 1, L0366: 1, S0106: 1 and S0021: 1.			
HOPJH65	HOPJH65R	1650	6 - 497	3825	Ala-1 to Gly-11, Asn-20 to Pro-25.					
HOPJM63	HOPJM63R	1651	101 - 250	3826	Pro-20 to Glu-25,	S0010: 1, H0327: 1,				

HOPJU10	HOPJU10R	1652	78 - 269	3827	Lys-31 to Gly-36.	H0039: 1, H0622: 1, S0464: 1, L0803: 1, H0684: 1 and H0670: 1.		
					Phe-15 to Ser-22.	L0665: 7, L0747: 7, L0662: 6, L0766: 6, L0655: 5, L0659: 5, S0126: 5, L0717: 4, H0370: 4, L0763: 4, L0770: 4, L0646: 4, H0521: 4, L0748: 4, S0360: 3, H0009: 3, S0142: 3, S0344: 3, L0771: 3, L0774: 3, L0775: 3, L0663: 3, L0664: 3, L0740: 3, L0751: 3, L0750: 3, L0758: 3, L0601: 3, H0265: 2, H0657: 2, S0418: 2, S0420: 2, S0045: 2, T0039: 2, H0024: 2, T0010: 2, H0413: 2, S0144: 2, S0210: 2, L0667: 2, L0372: 2, L0642: 2, L0765: 2, L0653: 2, L0383: 2, L0666: 2, L0744: 2, L0439: 2, L0754: 2, L0756: 2, L0731: 2, L0599: 2, H0543: 2, L0615: 1,		

	H0556: 1, H0295: 1, S0114: 1, H0656: 1, L0778: 1, S0282: 1, H0255: 1, H0661: 1, H0402: 1, S0354: 1, S0358: 1, S0376: 1, H0351: 1, S0222: 1, H0600: 1, H0586: 1, H0333: 1, H0250: 1, T0082: 1, H0318: 1, H0421: 1, H0052: 1, L0738: 1, H0327: 1, H0051: 1, H0083: 1, S0003: 1, S0022: 1, S0214: 1, H0092: 1, T0023: 1, L0483: 1, T0006: 1, H0030: 1, H0628: 1, H0181: 1, H0169: 1, H0090: 1, H0058: 1, L0351: 1, T0041: 1, H0494: 1, S0015: 1, L0065: 1, S0426: 1, L0640: 1, L0769: 1, L0772: 1, L0641: 1, L0374: 1, L0764: 1, L0773: 1, L0648: 1, L0626: 1, L0768: 1, L0649: 1, L0784: 1, L0378: 1, L0806: 1, L0776: 1,				
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HOPJX48	HOPJX48R	1653	1 - 207	3828	Arg-5 to His-22, Ser-59 to Ala-69.	L0807: 1, L0657: 1, L0656: 1, L0783: 1, S0052: 1, S0428: 1, L0438: 1, H0547: 1, H0690: 1, H0682: 1, H0684: 1, H0670: 1, H0660: 1, H0672: 1, H0522: 1, H0187: 1, H0576: 1, S0027: 1, S0206: 1, L0743: 1, L0757: 1, L0605: 1, L0590: 1, L0591: 1, L0581: 1, L0595: 1, S0026: 1, H0665: 1, H0667: 1, H0542: 1, H0423: 1 and H0352: 1. H0445: 13, H0255: 11, L0666: 7, H0575: 5, H0059: 4, S0344: 4, L0655: 4, H0521: 4, H0522: 4, L0748: 4, L0751: 4, H0556: 3, S0278: 3, H0013: 3, H0181: 3, H0617: 3, S0142: 3, H0658: 3, H0660: 3, L0439: 3, H0423: 3, S0116: 2, H0341: 2, S0360: 2, H0580: 2, H0581: 2, H0014: 2, H0087: 2,		
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L0663: 2, L0664: 2, L0665: 2, H0684: 2, L0741: 2, L0743: 2, H0170: 1, H0171: 1, H0265: 1, H0583: 1, H0657: 1, H0656: 1, L0470: 1, H0254: 1, H0664: 1, H0662: 1, S0420: 1, S0408: 1, H0393: 1, H0392: 1, H0613: 1, H0333: 1, L0622: 1, H0101: 1, H0250: 1, H0427: 1, L0021: 1, H0253: 1, S0346: 1, H0421: 1, H0596: 1, H0150: 1, H0620: 1, H0024: 1, H0428: 1, H0553: 1, H0169: 1, H0674: 1, S0366: 1, H0163: 1, H0040: 1, H0616: 1, H0063: 1, H0026: 1, H0517: 1, L0640: 1, L0770: 1, L0769: 1, L0761: 1, L0773: 1, L0559: 1, L0659: 1, L0790: 1, H0144: 1, H0593: 1, H0690: 1, H0709: 1, H0696: 1, H0187: 1, L0744: 1,					
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					S0031: 1 and H0543: 1.		
HOPJY50	HOPJY50R	1654	273 - 395	3829			
HOPJZ59	HOPJZ59R	1655	2 - 163	3830	Pro-35 to Arg-48.		
HOPKA06	HOPKA06R	1656	2 - 676	3831	Arg-19 to Tyr-24, Asp-75 to Glu-87, Asn-102 to Cys-109, Ser-113 to Lys-118, Tyr-154 to Ser-169.  Leu-39 to Ser-51.	AR096: 4, AR089: 3, AR061: 1, AR055: 1, AR060: 1, AR104: 1 H0684: 2 and L0731: 1.	
HOPKC65	HOPKC65R	1657	26 - 232	3832			
HOPKD31	HOPKD31R	1658	3 - 191	3833	Ser-50 to Pro-57.		
HOPKG16	HOPKG16R	1659	1 - 456	3834	Asn-80 to Gly-86.		
HOPKG47	HOPKG47R	1660	1 - 579	3835	Pro-6 to Thr-34, Asp-57 to Gly-62, Gly-77 to Glu-83, Lys-108 to Asp-116, Met-145 to Arg-159.		
HOPKG83	HOPKG83R	1661	1 - 663	3836	Ser-72 to Ala-78, Asp-94 to Gly-100, Thr-104 to Asp-111, Ser-117 to Arg-133, Glu-138 to Lys-144, Lys-158 to Asp-165.		
HOPKK38	HOPKK38R	1662	3 - 455	3837	Ser-33 to Pro-42, Lys-53 to Cys-61.	H0494: 6, H0556: 5, H0265: 3, H0656: 3, H0618: 3, H0295: 2, H0255: 2, H0392: 2, H0575: 2, H0253: 2, H0052: 2, H0024: 2, H0617: 2 H0087: 2	

L0565: 2, H0547: 2, H0521: 2, L0744: 2, L0439: 2, H0136: 2, H0543: 2, H0224: 1, H0225: 1, H0585: 1, S0114: 1, H0341: 1, H0484: 1, H0483: 1, H0671: 1, S0418: 1, S0354: 1, S0408: 1, S0007: 1, S0045: 1, H0261: 1, H0550: 1, H0586: 1, H0587: 1, H0497: 1, H0643: 1, H0257: 1, H0559: 1, H0485: 1, H0486: 1, S0346: 1, T0048: 1, T0071: 1, H0309: 1, H0041: 1, H0081: 1, H0050: 1, H0012: 1, H0620: 1, H0051: 1, S0388: 1, H0071: 1, H0083: 1, H0354: 1, H0594: 1, H0266: 1, H0179: 1, H0271: 1, H0292: 1, H0428: 1, H0424: 1, H0181: 1, H0135: 1, H0090: 1, H0063: 1, H0488: 1, H0433: 1, H0100: 1, T0041: 1, S0440: 1,					
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							S0142: 1, H0538: 1, L0769: 1, L0764: 1, L0803: 1, L0809: 1, H0593: 1, H0683: 1, H0684: 1, H0435: 1, S0044: 1, L0747: 1, S0031: 1, H0445: 1, L0593: 1 and L0601: 1.			
HOPKN14	HOPKN14R	1663	2 - 460	3838	Gly-63 to Ala-69, Gly-104 to Leu-110, Gly-130 to Gly-136.					
HOPKN67	HOPKN67R	1664	22 - 483	3839						
HOPKO04	HOPKO04RA	1665	170 - 319	3840			L0803: 6, L0731: 4, S0440: 3, L0662: 3, L0809: 3, L0665: 3, S0276: 3, H0486: 2, H0318: 2, L0794: 2, L0805: 2, L0776: 2, L0663: 2, H0684: 2, L0740: 2, L0759: 2, L0592: 2, H0624: 1, L0448: 1, H0341: 1, S0282: 1, H0663: 1, S0360: 1, H0580: 1, L0468: 1, H0587: 1, H0427: 1, H0575: 1, S0010: 1, L0471: 1, H0644: 1, H0383: 1, H0169: 1, L0456: 1, H0090: 1, H0264: 1,			

									H0412: 1, H0561: 1, S0150: 1, S0002: 1, H0529: 1, L0638: 1, L5565: 1, L0372: 1, L0649: 1, L0388: 1, L0659: 1, L0783: 1, L0789: 1, L0791: 1, H0519: 1, S0380: 1, H0522: 1, H0436: 1, L0747: 1, L0752: 1, L0757: 1, L0599: 1, H0542: 1, H0543: 1 and H0422: 1.			
HOPKO61	HOPKO61R	1666	1 - 405	3841								
HOPKP45	HOPKP45R	1667	282 - 536	3842								
HOPKQ20	HOPKQ20R	1668	19 - 402	3843	Ser-19 to Arg-29, Asp-37 to Val-43, Ala-75 to Leu-80, Thr-96 to Arg-111.							
HOPKQ82	HOPKQ82R	1669	1 - 519	3844								
HOPKR56	HOPKR56R	1670	3 - 173	3845					L0439: 15, L0666: 8, S0222: 6, L0794: 5, L0638: 3, L0805: 3, L0664: 3, L0758: 3, L0592: 3, S0010: 2, L0770: 2, L0438: 2, H0624: 1, H0170: 1, S6024: 1, H0441: 1, S0414: 1, H0052: 1, H0572: 1, S6028: 1,			

							H0688: 1, H0616: 1, L0769: 1, L0768: 1, L0803: 1, L0774: 1, L0776: 1, L0659: 1, L0809: 1, L0789: 1, L0792: 1, H0519: 1, H0684: 1, L0745: 1, L0747: 1, L0756: 1, L0786: 1, L0753: 1, L0731: 1, L0759: 1 and L0366: 1.			
HOPKU33	HOPKU33R	1671	2 - 274	3846						
HOVBH23	HOVBH23R	1672	2 - 136	3847	Gly-1 to Val-7.					
HOVBK37	HOVBK37R	1673	237 - 551	3848	Pro-7 to Trp-14.		L0794: 16, L0809: 6, S0360: 4, H0617: 3, L0803: 3, S0114: 2, H0288: 2, H0688: 2, H0494: 2, L0375: 2, L0731: 2, L0588: 2, H0556: 1, S0134: 1, H0484: 1, S0420: 1, H0637: 1, H0441: 1, H0370: 1, H0438: 1, H0592: 1, T0109: 1, S0010: 1, H0150: 1, H0009: 1, H0081: 1, H0271: 1, H0428: 1, S0368: 1, H0424: 1, H0181: 1, H0124: 1, S0438: 1, S0440: 1,			

								S0144: 1, S0142: 1, S0344: 1, L0637: 1, L5566: 1, L0761: 1, L0764: 1, L0648: 1, L0662: 1, L0364: 1, L0766: 1, L5574: 1, L0805: 1, L0783: 1, L0647: 1, L0789: 1, L0665: 1, H0520: 1, H0547: 1, H0670: 1, H0660: 1, H0648: 1, S0380: 1, H0521: 1, H0555: 1, S3012: 1, L0748: 1, L0779: 1, L0780: 1, L0757: 1, L0759: 1 and H0352: 1.			
HOVBK49	HOVBK49R	1674	3 - 86	3849		His-7 to Lys-20.					
HOVBS15	HOVBS15R	1675	144 - 404	3850		Glu-13 to Trp-32, Pro-34 to Asn-45.					
HOVBX41	HOVBX41R	1676	41 - 349	3851							
HOVCL23	HOVCL23R	1677	342 - 524	3852				S0360: 2, H0497: 2, H0333: 1, H0004: 1, H0428: 1, H0674: 1, S0422: 1, L0763: 1, L0803: 1, H0648: 1 and S0276: 1.			
HOVCN03	HOVCN03R	1678	2 - 127	3853		Gly-1 to Glu-7, Gly-29 to Ala-36.					
HOVCO26	HOVCO26R	1679	395 - 580	3854							
HOVCU89	HOVCU89R	1680	3 - 578	3855		Lys-63 to Ser-69,					

HOVCV33	HOVCV33R	1681	1 - 471	3856	Tyr-95 to His-102, Tyr-105 to Leu-111.			
HOVCW45	HOVCW45R	1682	2 - 226	3857	Ser-15 to Tyr-21, Gly-32 to Arg-37.			
						H0615: 2, L0748: 2, H0656: 1, S0007: 1, H0486: 1, H0041: 1, H0355: 1, S0250: 1, S0003: 1, H0688: 1, H0428: 1, H0622: 1, T0042: 1, L0768: 1, L0657: 1, L0526: 1, H0702: 1, L0565: 1, H0547: 1, H0519: 1, S0152: 1, S0390: 1, L0745: 1, L0749: 1, L0779: 1, L0588: 1, L0608: 1 and L0593: 1.		
HOVCY68	HOVCY68R	1683	333 - 551	3858				
HOVCZ45	HOVCZ45R	1684	53 - 220	3859	Ile-32 to Arg-37.			
HOVDB43	HOVDB43R	1685	110 - 289	3860				
HOVDB61	HOVDB61R	1686	34 - 204	3861				
HOVDB62	HOVDB62R	1687	1 - 270	3862				
HOVDB65	HOVDB65R	1688	37 - 498	3863				
HOVDD26	HOVDD26R	1689	24 - 257	3864				
HOVDE46	HOVDE46R	1690	253 - 393	3865	Asp-1 to Lys-6.			
HOVDG60	HOVDG60R	1691	92 - 184	3866				
HOVDG71	HOVDG71R	1692	74 - 154	3867				
HOVDH09	HOVDH09R	1693	3 - 365	3868	Pro-1 to Tyr-8,			

					Gln-14 to Gln-19, Arg-25 to Glu-37, Asn-44 to Arg-50, Glu-67 to Leu-75, Thr-105 to Gly-114.				
HOVDH75	HOVDH75R	1694	43 - 348	3869					L0794: 10, L0803: 7, L0747: 6, H0657: 5, H0597: 4, H0617: 4, L0764: 4, L0809: 4, L0758: 4, L0759: 4, L0800: 3, L0804: 3, L0775: 3, H0659: 3, H0543: 3, H0231: 2, L0471: 2, H0673: 2, H0674: 2, L0763: 2, L0770: 2, L0769: 2, L0768: 2, L0649: 2, L0375: 2, L0776: 2, H0658: 2, L0750: 2, L0779: 2, L0755: 2, L0731: 2, L0757: 2, L0596: 2, L0588: 2, S0026: 2, H0170: 1, H0483: 1, H0661: 1, H0402: 1, H0459: 1, S0360: 1, H0639: 1, L0717: 1, H0392: 1, H0607: 1, H0333: 1, H0486: 1, H0318: 1,
HOVDU91	HOVDU91R	1695	3 - 233	3870					



						H0251: 1, H0184: 1, H0045: 1, H0014: 1, S0388: 1, S0051: 1, H0594: 1, H0188: 1, H0687: 1, L0052: 1, H0328: 1, H0428: 1, H0181: 1, H0032: 1, H0090: 1, H0087: 1, H0413: 1, H0561: 1, S0372: 1, H0647: 1, S0144: 1, S0002: 1, H0026: 1, L0761: 1, L0627: 1, L0648: 1, L0766: 1, L0774: 1, L0805: 1, L0656: 1, L0659: 1, L0636: 1, L0383: 1, L0666: 1, L0663: 1, L0665: 1, S0428: 1, H0689: 1, H0670: 1, H0539: 1, S0013: 1, S0174: 1, L0751: 1, L0777: 1, L0752: 1, H0445: 1, L0608: 1, L0595: 1 and H0136: 1.		
HOVDV70	HOVDV70R	1696	60 - 293	3871	Ile-12 to Gln-17.	L0752: 3, L0731: 3, L0747: 2, L0753: 2, H0265: 1, S0116: 1, S0420: 1, H0428: 1, L0769: 1, L0767: 1,		

							L0766: 1, L0775: 1, L0776: 1, H0555: 1, L0742: 1, L0748: 1, L0757: 1 and L0759: 1.			
HOVDW60	HOVDW60R	1697	64 - 264	3872		Tyr-22 to Ala-28.	H0428: 1 and S014: 1.			
HOVDZ66	HOVDZ66R	1698	99 - 257	3873		Gly-40 to His-48.	H0428: 2			
HOVEA43	HOVEA43R	1699	247 - 396	3874						
HOVEB25	HOVEB25R	1700	169 - 363	3875		Ala-20 to Gln-25.				
HOVEE84	HOVEE84R	1701	410 - 589	3876		Ser-7 to Trp-13, Phe-19 to Ala-25.				
HOVEE92	HOVEE92R	1702	3 - 143	3877			S0474: 66, L0439: 16, H0547: 15, L0748: 15, L0731: 10, S0360: 9, L0770: 9, S0408: 8, S0358: 7, L0771: 7, L0775: 7, L0747: 6, L0592: 6, H0428: 5, S0438: 5, L0659: 5, L0664: 5, L0665: 5, L0752: 5, L0757: 5, H0506: 5, S0007: 4, H0549: 4, S0440: 4, L0769: 4, L0768: 4, L0774: 4, L0663: 4, H0519: 4, S0152: 4, L0750: 4, L0779: 4, L0755: 4, L0759: 4, L0591: 4, L0595: 4, S0444: 3, H0510: 3, H0615: 3, H0551: 3,			

				H0100: 3, L0598: 3, L0638: 3, L0766: 3, S0380: 3, L0594: 3, H0341: 2, S0420: 2, S0442: 2, H0722: 2, L0717: 2, H0550: 2, S0222: 2, H0587: 2, H0574: 2, H0632: 2, H0013: 2, H0575: 2, H0581: 2, H0544: 2, H0012: 2, H0687: 2, H0628: 2, S0036: 2, H0509: 2, L0637: 2, L0764: 2, L0773: 2, L0803: 2, L0375: 2, L0806: 2, L0783: 2, L0666: 2, H0520: 2, H0684: 2, H0659: 2, H0521: 2, L0745: 2, L0756: 2, S0436: 2, L0596: 2, L0593: 2, L0362: 2, S0194: 2, H0543: 2, H0624: 1, H0170: 1, H0171: 1, H0717: 1, H0657: 1, H0671: 1, H0663: 1, H0664: 1, H0459: 1, S0356: 1, S0410: 1, H0637: 1, S0476: 1, H0645: 1, S6026: 1,				
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		S0300: 1, H0369: 1, H0431: 1, H0586: 1, H0497: 1, H0331: 1, L0021: 1, S0049: 1, H0184: 1, L0738: 1, H0545: 1, H0046: 1, H0563: 1, H0123: 1, H0050: 1, L0471: 1, H0620: 1, H0014: 1, S0388: 1, S0051: 1, H0356: 1, H0266: 1, S0003: 1, H0039: 1, H0622: 1, T0006: 1, H0617: 1, S0366: 1, H0090: 1, H0040: 1, H0616: 1, S0038: 1, T0041: 1, H0494: 1, S0014: 1, S0150: 1, L0369: 1, L0640: 1, L0763: 1, L5565: 1, L0761: 1, L0373: 1, L0372: 1, L0646: 1, L0521: 1, L0662: 1, L0804: 1, L0651: 1, L0652: 1, L0776: 1, L0527: 1, L0657: 1, L0526: 1, L0384: 1, L0809: 1, L0545: 1, L0790: 1, L0792: 1, H0144: 1, L0438: 1,				
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HOVEF34	HOVEF34R	1703	288 - 497	3878			H0593: 1, S0126: 1, H0682: 1, H0660: 1, H0648: 1, S0328: 1, H0539: 1, S0378: 1, S0350: 1, H0696: 1, S0028: 1, S0206: 1, L0740: 1, L0777: 1, L0758: 1, S0434: 1, H0217: 1, S0192: 1, S0412: 1 and S0456: 1.		
HOVEF81	HOVEF81R	1704	1 - 393	3879	Gln-4 to Gln-10, Lys-35 to Ala-60, Pro-66 to Ser-79.		L0750: 11, L0740: 7, L0747: 5, H0341: 4, L0757: 4, H0641: 3, L0766: 3, L0748: 3, L0754: 3, L0752: 3, L0593: 3, H0171: 2, S0134: 2, S0442: 2, S0010: 2, H0428: 2, H0538: 2, L0770: 2, L0774: 2, L0776: 2, L0517: 2, L0438: 2, H0519: 2, H0684: 2, L0777: 2, L0755: 2, L0731: 2, L0758: 2, S0026: 2, H0170: 1, T0002: 1, S0114: 1, S0116: 1, H0663: 1, S0358: 1, S0360: 1, S0007: 1, S0046: 1,		

							H0411: 1, H0592: 1, H0486: 1, H0013: 1, L0022: 1, H0575: 1, H0581: 1, H0052: 1, H0251: 1, H0012: 1, H0620: 1, H0594: 1, H0398: 1, S0036: 1, H0090: 1, H0038: 1, H0040: 1, H0087: 1, L0475: 1, L0520: 1, L0630: 1, L0521: 1, L0662: 1, L0522: 1, L0803: 1, L0651: 1, L0652: 1, L0655: 1, L0661: 1, L0783: 1, L0809: 1, L0789: 1, L0666: 1, H0689: 1, H0682: 1, H0659: 1, H0670: 1, S0330: 1, H0539: 1, H0436: 1, L0605: 1, L0366: 1, S0276: 1, H0542: 1 and H0423: 1.			
HOVEG73	HOVEG73R	1705	3 - 290	3880	Ser-9 to Gly-17, Ser-20 to Pro-26, Arg-32 to His-41.					
HOVEJ15	HOVEJ15R	1706	160 - 468	3881		L0809: 8, L0794: 5, L0439: 5, L0758: 5, H0617: 4, L0438: 4, L0754: 4, L0731: 4,				

						H0295: 3, L0776: 3, H0619: 2, H0441: 2, H0253: 2, H0545: 2, H0188: 2, H0687: 2, H0428: 2, H0424: 2, H0213: 2, H0031: 2, L0769: 2, L0803: 2, L0792: 2, H0539: 2, L0748: 2, L0745: 2, L0747: 2, L0757: 2, H0717: 1, H0549: 1, S0222: 1, H0333: 1, H0318: 1, S0049: 1, L0738: 1, H0046: 1, H0024: 1, H0090: 1, H0649: 1, S0142: 1, L0763: 1, L0642: 1, L0764: 1, L0771: 1, L0649: 1, L0651: 1, L0632: 1, L0805: 1, L0790: 1, H0144: 1, H0723: 1, H0682: 1, H0696: 1, H0555: 1, S0028: 1, L0742: 1, L0744: 1 and L0752: 1.			
HOVEL51	HOVEL51R	1707	60 - 209	3882	Ser-13 to Val-21, Thr-45 to Ser-50.				
HOVEN79	HOVEN79R	1708	146 - 265	3883					
HOVEN86	HOVEN86R	1709	1 - 168	3884					
HOVEP45	HOVEP45R	1710	1 - 102	3885					

HOVEW80	HOVEW80R	1711	2 - 244	3886					
HOVEY58	HOVEY58R	1712	175 - 405	3887	Lys-5 to Ser-18.		L0803: 7, L0748: 4, L0439: 4, L0804: 3, L0750: 3, L0756: 3, H0024: 2, L0438: 2, L0747: 2, L0779: 2, H0624: 1, H0171: 1, H0661: 1, S0354: 1, H0208: 1, S0300: 1, H0441: 1, H0331: 1, H0013: 1, S0214: 1, H0428: 1, H0040: 1, L0770: 1, L0776: 1, L0809: 1, L0665: 1, H0547: 1, H0658: 1, S0432: 1, L0749: 1, L0777: 1, L0780: 1, L0755: 1 and L0759: 1.		
HOVFD79	HOVFD79R	1713	3 - 152	3888	Val-2 to Ser-7.				
HOVJF86	HOVJF86RA	1714	20 - 130	3889					
HOVJH27	HOVJH27RA	1715	2 - 355	3890					
HOVJI53	HOVJI53R	1716	1 - 396	3891					
HOVJJ09	HOVJJ09R	1717	1 - 576	3892	Ser-5 to Gly-10, Glu-18 to Glu-32, Ala-39 to Lys-46, Ser-89 to Arg-96, Pro-141 to Ala-151, Ser-162 to Gln-169.				
HOVJR56	HOVJR56R	1718	1 - 186	3893	Ala-18 to Ser-24, Gly-55 to Thr-60.				



HOVJU75	HOVJU75R	1719	49 - 684	3894	Tyr-44 to Asp-49, Pro-132 to Leu-139, Cys-168 to His-174.			
HOVJW17	HOVJW17R	1720	74 - 301	3895	Ala-8 to Gln-14, Arg-40 to Glu-45.			
HOVJY68	HOVJY68R	1721	199 - 570	3896	Pro-47 to Lys-53, Leu-93 to Lys-102, Tyr-105 to Gln-110, Arg-115 to Lys-124.			
HOVKB02	HOVKB02R	1722	1 - 366	3897	Ala-1 to His-13, Leu-73 to Leu-79.	L0157: 2, H0620: 2, L0666: 2, S0001: 1, L0717: 1, H0549: 1, S0222: 1, H0581: 1, H0194: 1, H0015: 1, H0399: 1, H0271: 1, H0688: 1, H0428: 1, H0124: 1, L0637: 1, H0672: 1, L0439: 1, L0750: 1 and H0423: 1.		
HOVKE66	HOVKE66R	1723	2 - 487	3898	Ala-20 to Val-38, Cys-43 to Thr-60, Arg-91 to Lys-97.			
HOVKF20	HOVKF20R	1724	1 - 168	3899	Gln-15 to Leu-20, Pro-37 to Thr-44.			
HOVKG18	HOVKG18R	1725	2 - 406	3900	Cys-23 to His-29, Ser-74 to Glu-91.			
HPAMB11	HPAMB11R	1726	323 - 511	3901	Gln-8 to Tyr-14, Pro-20 to Thr-26.			
HPAMR60	HPAMR60R	1727	2 - 586	3902				

HPAMB62	HPAMB62R	1728	2 - 196	3903	Leu-12 to Ser-21.	L0439: 11, L0747: 8, H0624: 6, L0759: 6, L0779: 5, L0758: 5, H0013: 4, L0803: 4, L0754: 4, H0171: 3, L0666: 3, L0756: 3, L0752: 3, L0755: 3, L0591: 3, L0608: 3, H0170: 2, H0650: 2, H0341: 2, H0663: 2, S0360: 2, S0003: 2, L0769: 2, L0796: 2, L0766: 2, L0649: 2, L0806: 2, H0696: 2, S0028: 2, L0740: 2, L0750: 2, L0777: 2, S0436: 2, L0361: 2, S0298: 1, S0418: 1, S0444: 1, S0408: 1, H0733: 1, H0734: 1, S0300: 1, S0220: 1, H0497: 1, H0333: 1, H0270: 1, H0575: 1, H0036: 1, H0590: 1, H0596: 1, H0050: 1, L0471: 1, H0015: 1, S0388: 1, S6028: 1, H0266: 1, H0328: 1, H0622: 1, H0708: 1, H0591: 1, H0040: 1,		
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HPAMB93	HPAMB93R	1729	2 - 439	3904										
HPAMC04	HPAMC04R	1730	134 - 334	3905										
HPAMC19	HPAMC19R	1731	8 - 631	3906										
HPAMC27	HPAMC27R	1732	1 - 669	3907										
HPAMC90	HPAMC90R	1733	18 - 464	3908	Arg-1 to Gly-6,	S0360: 15, S0358: 14,								

Pro-13 to Thr-20.	L0794: 12, L0747: 12, H0696: 11, H0341: 10, H0670: 10, H0657: 9, S0422: 9, H0659: 8, S0114: 7, H0656: 7, S0408: 7, S0007: 7, H0486: 7, H0543: 7, S0444: 6, L0471: 6, S0126: 6, H0658: 6, S0378: 6, S0406: 6, S0027: 6, H0038: 5, H0040: 5, L0770: 5, L0517: 5, H0648: 5, S0404: 5, L0752: 5, H0423: 5, H0624: 4, H0171: 4, H0716: 4, S0116: 4, S0410: 4, H0545: 4, H0373: 4, H0674: 4, L0520: 4, L0763: 4, L0662: 4, L0775: 4, L0493: 4, L0518: 4, L0809: 4, L0519: 4, S3012: 4, H0445: 4, L0361: 4, H0685: 3, T0049: 3, S0420: 3, H0580: 3, S0132: 3, T0109: 3, H0013: 3, S0346: 3, H0597: 3, H0615: 3, H0616: 3, H0087: 3,
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HPAMD56	HPAMD56R	1734	1 - 504	3909	Glu-10 to Phe-17, Phe-25 to Leu-32, Thr-38 to Tyr-44, Gln-81 to Thr-88.					
HPAME35	HPAME35R	1735	2 - 277	3910	Gly-60 to Phe-66.		L0731: 9, L0653: 8, L0757: 6, L0809: 5, L0747: 5, S0418: 4, S0360: 4, H0188: 4, S0404: 4, L0779: 4, S0040: 3, H0370: 3, H0040: 3, L0774: 3, S0434: 3, S0442: 2, H0575: 2, H0252: 2, S0440: 2, L0374: 2, L0773: 2, H0435: 2, S0406: 2, L0748: 2, L0740: 2, L0754: 2, L0746: 2, L0758: 2, L0581: 2, H0624: 1, H0686: 1, S0180: 1, H0661: 1, S0358: 1, S0476: 1, L0717: 1, H0549: 1, H0455: 1, H0586: 1, H0632: 1, S0280: 1, H0599: 1, H0118: 1, H0235: 1,			



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HPAME58	HPAME58R	1736	184 - 492	3911	Lys-1 to Leu-12.	H0663: 1, L0438: 1 and H0682: 1.			
HPAMF16	HPAMF16R	1737	19 - 513	3912	Glu-1 to Gly-8.				

HPAMF38	HPAMF38R	1738	24 - 449	3913	Ser-35 to Gly-41, Ser-71 to Met-80.	L0752: 12, L0748: 8, L0766: 5, L0599: 5, H0617: 4, L0764: 4, H0081: 3, L0774: 3, L0806: 3, L0776: 3, L0749: 3, L0750: 3, S0444: 2, S0408: 2, H0392: 2, H0150: 2, H0494: 2, H0521: 2, L0756: 2, L0758: 2, H0506: 2, H0352: 2, H0265: 1, H0483: 1, S0358: 1, L0021: 1, H0108: 1, H0024: 1, H0083: 1, S0366: 1, H0090: 1, H0038: 1, H0040: 1, T0041: 1, L0763: 1, L0770: 1, L3905: 1, L0772: 1, L0644: 1, L0645: 1, L0771: 1, L0775: 1, L0651: 1, L0378: 1, L0659: 1, L0666: 1, L0665: 1, L0438: 1, H0519: 1, H0682: 1, H0670: 1, S0188: 1, L0740: 1, L0747: 1, L0777: 1, L0759: 1, H0445: 1, L0596: 1, L0604: 1 and H0542: 1.		
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HPAMG44	HPAMG44R	1739	385 - 666	3914					
HPAMG54	HPAMG54R	1740	3 - 410	3915					
HPAMI11	HPAMI11R	1741	2 - 670	3916	Lys-13 to Tyr-30, Arg-52 to Lys-57, Ser-72 to Thr-79, Thr-110 to Trp-115, Leu-124 to Ala-130, Leu-132 to Glu-138, Asn-141 to Lys-162.				
HPAMJ71	HPAMJ71R	1742	2 - 472	3917					
HPAMQ47	HPAMQ47R	1743	100 - 246	3918		L0777: 5, L0766: 3, L0803: 3, L0439: 3, S0360: 2, L0598: 2, L0666: 2, L0748: 2, T0049: 1, S0134: 1, S0116: 1, L0717: 1, H0586: 1, H0486: 1, H0575: 1, H0510: 1, H0553: 1, H0560: 1, S0422: 1, L0763: 1, L0769: 1, L0521: 1, L0767: 1, L0768: 1, L0775: 1, L0663: 1, S0374: 1, L0438: 1, H0520: 1, H0682: 1, S0328: 1, L0740: 1, L0757: 1, S0192: 1 and H0543: 1.			
HPAMQ76	HPAMQ76R	1744	2 - 190	3919	Pro-18 to Lys-24.				
HPAMT47	HPAMT47R	1745	327 - 509	3920	Thr-27 to Lys-37.	S0358: 8, L0777: 6,			

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HPAMU33	HPAMU33R	1746	2 - 520	3921		Lys-59 to Tyr-70, Pro-109 to Lys-115.				
HPAMV82	HPAMV82R	1747	207 - 422	3922		Gln-34 to Asn-39.				
HPAMW44	HPAMW44R	1748	1 - 357	3923		Gly-1 to Arg-13, Glu-37 to Lys-42, Gly-45 to Gln-64.	L0742: 11, L0747: 10, L0769: 9, L0766: 9, L0754: 8, L0751: 7, L0777: 7, L0752: 7, L0806: 6, L0776: 6, L0743: 6, L0717: 4, L0665: 4, L0750: 4, S0360: 3, H0580: 3, H0318: 3, H0052: 3, L0471: 3, H0040: 3, T0042: 3, H0547: 3, H0682: 3, L0745: 3, L0779: 3, L0759: 3, L0593: 3, L0601: 3, H0624: 2, H0556: 2, S0045: 2, H0559: 2, H0013: 2, H0530: 2, H0046: 2, H0620: 2, S0051: 2, T0010: 2,			

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HPAMY45	HPAMY45R	1749	291 - 569	3924	Pro-1 to Cys-6, Ala-13 to Ala-19, His-22 to Lys-28, Ser-44 to Cys-53, Pro-56 to Gly-67.					
HPAMZ14	HPAMZ14R	1750	2 - 628	3925	Trp-19 to Ser-27, Pro-185 to Ser-195.					
HPAMZ15	HPAMZ15R	1751	3 - 149	3926		L0493: 91, L0515: 29, L0509: 25, L0514: 21, L0803: 12, L0508: 8, L0604: 7, H0599: 6, L0809: 5, H0445: 5, L0800: 4, L0511: 4, L0362: 4, H0543: 4,				

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HPAMZ81	HPAMZ81R	1752	3 - 677	3927	Ser-1 to Lys-25, Glu-71 to Ser-77, Glu-93 to Thr-99				

					Arg-123 to His-134, Pro-141 to His-146, His-198 to Ala-207.			
HPANA05	HPANA05R	1753	2 - 514	3928	Thr-23 to Gln-35, His-37 to Val-51, Arg-70 to Arg-81, Gln-108 to Asp-114, Met-130 to Ser-140.			
HPANA07	HPANA07R	1754	1 - 720	3929	Ala-1 to Thr-6, Lys-19 to Leu-24, Ile-77 to Ala-93, Val-105 to Leu-110, Thr-139 to Thr-153, Thr-165 to Lys-187, Ala-198 to Leu-203, Ser-211 to Lys-226.	H0497: 5, S0002: 5, H0529: 5, H0556: 4, H0046: 3, L0455: 3, T0042: 3, H0520: 3, H0543: 3, H0265: 2, H0657: 2, H0656: 2, H0458: 2, S0358: 2, H0486: 2, H0050: 2, H0124: 2, H0591: 2, H0494: 2, L0662: 2, H0522: 2, L0740: 2, L0751: 2, L0747: 2, L0588: 2, L0605: 2, H0667: 2, H0686: 1, H0650: 1, H0664: 1, H0125: 1, S0418: 1, H0580: 1, S6014: 1, H0257: 1, H0559: 1, H0635: 1, H0427: 1, H0575: 1, H0052: 1, N0006: 1, L0471: 1, H0373: 1, H0083: 1,		

HPANA28	HPANA28R	1755	2 - 376	3930	Gln-22 to Thr-31, Leu-91 to Leu-104.	H0266: 1, S0250: 1, S0022: 1, H0428: 1, H0031: 1, H0383: 1, H0212: 1, S0366: 1, S0036: 1, H0040: 1, H0634: 1, H0561: 1, S0210: 1, L0770: 1, L0761: 1, L0772: 1, L0641: 1, L0644: 1, L0764: 1, L0776: 1, L0655: 1, L0807: 1, L0657: 1, L0665: 1, S0148: 1, S0126: 1, H0682: 1, H0694: 1, S0037: 1, L0744: 1, L0750: 1, L0755: 1, L0731: 1, S0436: 1, L0596: 1, L0485: 1, L0601: 1, S0276: 1, H0423: 1, S0424: 1 and S0446: 1.		
HPANA87	HPANA87R	1756	494 - 730	3931	Gln-13 to Gly-28.			
HPANB32	HPANB32R	1757	2 - 247	3932				
HPANC01	HPANC01R	1758	255 - 446	3933	Leu-1 to Ser-8.			
HPANE49	HPANE49R	1759	2 - 412	3934				
HPANE52	HPANE52R	1760	1 - 666	3935	Lys-64 to Tyr-75, Pro-114 to Lys-120, Leu-160 to Lys-169.			

HPANE87	HPANE87R	1761	119 - 652	3936	Tyr-172 to Gln-177, Pro-182 to Val-189.	L0752: 10, L0593: 9, L0775: 8, L0588: 8, L0666: 7, L0665: 7, L0592: 7, L0595: 7, L0363: 6, L0774: 6, L0747: 6, L0362: 6, H0422: 6, L0455: 5, L0659: 5, H0539: 5, H0170: 4, S0360: 4, L0657: 4, H0547: 4, L0749: 4, L0779: 4, L0757: 4, H0657: 3, H0412: 3, L0520: 3, L0761: 3, L0646: 3, L0375: 3, L0651: 3, L0783: 3, H0144: 3, H0520: 3, H0659: 3, H0670: 3, H0648: 3, L0740: 3, L0750: 3, L0756: 3, L0731: 3, L0759: 3, L0591: 3, L0608: 3, H0662: 2, S0376: 2, H0637: 2, H0619: 2, L0717: 2, S0280: 2, H0318: 2, T0010: 2, H0040: 2, H0413: 2, L0351: 2, H0646: 2, L0763: 2,		
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HPANJ67	HPANJ67R	1762	3 - 119	3937	Ser-5 to Ser-14, Gln-21 to Gln-28.					
HPANK61	HPANK61R	1763	170 - 310	3938			H0328: 2, H0674: 2, L0774: 2, L0805: 2, H0682: 2, L0731: 2, H0306: 1, L0770: 1, L0764: 1, L0809: 1, H0520: 1, H0660: 1, H0521: 1, L0744: 1, L0751: 1, L0750: 1, L0752: 1, S0026: 1, H0352: 1 and L0360: 1.			
HPCOB29	HPCOB29R	1764	2 - 139	3939						
HPCOB69	HPCOB69R	1765	47 - 118	3940						
HPCOJ59	HPCOJ59R	1766	3 - 308	3941	Pro-1 to Val-6,		H0659: 2			

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HPCOK93	HPCOK93R	1769	1 - 108	3944						
HPCOL81	HPCOL81R	1770	33 - 179	3945	Lys-42 to Val-49.					
HPCOO90	HPCOO90R	1771	3 - 335	3946	Ala-3 to Gly-9.					
HPCOO95	HPCOO95R	1772	343 - 2	3947	Tyr-12 to Ile-17, Pro-28 to Asn-33, Arg-45 to Asp-53.					
HPCOP23	HPCOP23R	1773	2 - 427	3948						



HPCOQ33	HPCOQ33R	1774	417 - 548	3949				L0803: 8, L0777: 8, L0794: 7, L0766: 7, H0144: 5, L0438: 5, H0547: 5, L0439: 5, H0013: 4, L0779: 4, H0441: 3, S0440: 3, L0762: 3, L0771: 3, L0662: 3, L0666: 3, L0665: 3, L0748: 3, L0752: 3, H0656: 2, H0341: 2, S0418: 2, S0356: 2, H0575: 2, H0328: 2, H0615: 2, H0040: 2, H0477: 2, T0041: 2, L0598: 2, L0763: 2, L0659: 2, L0663: 2, L0664: 2, H0659: 2, L0602: 2, S0406: 2, L0755: 2, L0759: 2, L0592: 2, H0624: 1, H0170: 1, H0171: 1, S0134: 1, H0583: 1, H0650: 1, H0657: 1, L0415: 1, S0116: 1, H0661: 1, H0664: 1, S0420: 1, L0005: 1, S0444: 1, S0360: 1, S0408: 1, S0046: 1, S0476: 1,		
HPCOQ85	HPCOQ85R	1775	2 - 259	3950						

						S0300: 1, L0717: 1, H0411: 1, H0486: 1, T0039: 1, H0318: 1, H0581: 1, H0123: 1, H0014: 1, H0354: 1, H0179: 1, S0003: 1, H0628: 1, H0032: 1, S0036: 1, L0060: 1, H0264: 1, H0412: 1, L0564: 1, H0625: 1, H0131: 1, H0646: 1, S0002: 1, L0770: 1, L0637: 1, L0761: 1, L0800: 1, L0764: 1, L0649: 1, L0804: 1, L0650: 1, L0519: 1, L0352: 1, H0519: 1, S0126: 1, H0658: 1, H0648: 1, H0672: 1, S0328: 1, S0330: 1, H0518: 1, H0696: 1, H0704: 1, S0027: 1, L0743: 1, L0754: 1, L0747: 1, L0758: 1, S0434: 1, L0591: 1, S0011: 1, H0543: 1, H0422: 1, H0506: 1 and H0721: 1.		
HPCOQ92	HPCOQ92R	1776	483 - 641	3951				
HPCOR41	HPCOR41R	1777	133 - 396	3952	Ala-44 to Gly-50.			

HPCOR52	HPCOR52R	1778	43 - 432	3953				S0414: 16, S0360: 6, S0358: 5, L0766: 5, H0574: 4, H0521: 4, L0754: 4, L0756: 4, S0422: 3, L0770: 3, H0547: 3, H0672: 3, L0596: 3, H0251: 2, H0615: 2, H0090: 2, L0646: 2, L0662: 2, L0776: 2, L0659: 2, L0752: 2, L0758: 2, S0436: 2, L0595: 2, H0624: 1, L0002: 1, H0583: 1, H0650: 1, S0116: 1, S0298: 1, S0282: 1, S0418: 1, H0722: 1, H0734: 1, S0045: 1, S0300: 1, L0717: 1, S0222: 1, H0013: 1, L0021: 1, H0706: 1, L0105: 1, H0263: 1, L0041: 1, H0057: 1, S0050: 1, L0163: 1, H0051: 1, S0388: 1, S0051: 1, H0271: 1, S0003: 1, H0644: 1, H0032: 1, H0673: 1, H0379: 1, H0272: 1, H0059: 1,		
HPCOU70	HPCOU70R	1779	137 - 355	3954						

							H0130: 1, H0647: 1, S0210: 1, S0426: 1, H0529: 1, L0637: 1, L0372: 1, L0649: 1, L0775: 1, L0651: 1, L0806: 1, L0657: 1, L0518: 1, L0788: 1, L0666: 1, L0663: 1, L0665: 1, H0144: 1, L0438: 1, H0519: 1, H0689: 1, H0690: 1, H0659: 1, S0380: 1, H0696: 1, S0406: 1, H0436: 1, H0478: 1, H0727: 1, L0439: 1, L0731: 1, H0595: 1, S0434: 1, L0608: 1, H0667: 1, S0196: 1, H0422: 1, S0424: 1 and H0506: 1.			
HPCOV35	HPCOV35R	1780	151 - 657	3955	Lys-4 to Lys-16.					
HPCOV41	HPCOV41R	1781	3 - 356	3956						
HPCOX43	HPCOX43R	1782	158 - 418	3957	Asn-9 to Trp-14, Pro-20 to Arg-46.					
HPCPB38	HPCPB38R	1783	294 - 473	3958		L0439: 3, L0438: 1, H0659: 1, H0648: 1 and S0330: 1.				
HPCPD26	HPCPD26R	1784	3 - 314	3959						
HPCPE33	HPCPE33R	1785	308 - 427	3960		H0551: 11, L0766: 10, L0794: 8, S0026: 7.				

				H0556: 6, L0770: 6, H0659: 6, H0521: 6, L0740: 5, H0661: 4, H0638: 4, H0497: 4, H0560: 4, H0170: 3, H0341: 3, S0360: 3, H0318: 3, H0561: 3, L0731: 3, L0757: 3, H0265: 2, S0418: 2, S0420: 2, S0356: 2, S0132: 2, S0278: 2, T0115: 2, T0110: 2, H0083: 2, S0214: 2, H0622: 2, H0617: 2, S0364: 2, H0090: 2, T0042: 2, H0366: 2, H0646: 2, S0002: 2, H0529: 2, L0369: 2, L0769: 2, L0646: 2, L0776: 2, L0655: 2, L0809: 2, L0789: 2, L0666: 2, L0664: 2, L0777: 2, L0758: 2, L0593: 2, H0668: 2, H0543: 2, H0423: 2, T0002: 1, S0342: 1, H0716: 1, H0657: 1, S0212: 1, H0402: 1, L0005: 1, S0376: 1, H0580: 1, H0339: 1,				
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HPCPH50	HPCPH50R	1786	93 - 209	3961			H0659: 2, L0752: 2, L0595: 2 and H0686: 1.			
HPCPH51	HPCPH51R	1787	203 - 412	3962		Pro-10 to Val-15, Ser-25 to Asn-32.				
HPCPH52	HPCPH52R	1788	3 - 101	3963						
HPCPH68	HPCPH68R	1789	191 - 322	3964						
HPCPU27	HPCPU27R	1790	3 - 116	3965		Pro-29 to Gln-38.				
HPCPW09	HPCPW09R	1791	201 - 407	3966		Gln-47 to Lys-55.	L0766: 10, L0754: 9, S0358: 6, H0616: 6, H0551: 5, L0439: 5, H0657: 4, H0497: 4, S0003: 4, H0038: 4, S0422: 4, S0374: 4, H0659: 4, S0045: 3, H0644: 3, H0412: 3, H0529: 3, L0662: 3, L0805: 3, L0657: 3, L0663: 3, H0521: 3, H0624: 2, H0171: 2, S0040: 2, H0638: 2, S0418: 2, L0005: 2, S0376: 2, H0546: 2, H0046: 2, H0553: 2, H0169: 2, H0591: 2, H0413: 2, H0623: 2, L0646: 2, L0771: 2, L0803: 2, L0526: 2, L0666: 2, L0664: 2,			

			S0330: 2, S0380: 2, L0748: 2, L0777: 2, L0758: 2, S0242: 2, H0170: 1, H0656: 1, S0116: 1, H0341: 1, S0212: 1, H0671: 1, S0356: 1, S0442: 1, S0360: 1, S0132: 1, H0619: 1, L0717: 1, S0278: 1, H0574: 1, H0632: 1, H0486: 1, T0114: 1, H0013: 1, L0105: 1, S0474: 1, T0110: 1, H0545: 1, L0471: 1, H0373: 1, H0290: 1, H0688: 1, H0622: 1, L0483: 1, H0628: 1, L0055: 1, H0673: 1, H0674: 1, H0068: 1, H0090: 1, H0056: 1, T0041: 1, H0560: 1, H0561: 1, S0440: 1, H0509: 1, S0150: 1, H0646: 1, S0144: 1, L0598: 1, H0517: 1, L0369: 1, L0372: 1, L0773: 1, L0804: 1, L0774: 1, L0653: 1, L0655: 1, L0527: 1, L0659: 1,			
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HPCPX80	HPCPX80R	1792	209 - 298	3967	His-25 to Lys-30.		H0659: 2, L0438: 1 and L0439: 1.			
HPCQO79	HPCQO79R	1793	74 - 256	3968	Thr-19 to Leu-24.					
HPCQO91	HPCQO91R	1794	270 - 479	3969			H0521: 13, L0659: 10, L0779: 10, H0551: 9, S0360: 6, S0214: 6, L0770: 6, L0649: 6, L0666: 6, L0731: 6, H0170: 5, H0638: 5, S0376: 5, H0580: 5, H0575: 5, H0553: 5, S0210: 5, L0662: 5, L0776: 5, L0657: 5, H0547: 5, L0439: 5, H0656: 4, S0358: 4, H0676: 4, H0574: 4, H0486: 4, H0318: 4, S0003: 4, L0655: 4,			

				L0663: 4, L0665: 4, H0659: 4, L0756: 4, L0757: 4, H0445: 4, H0542: 4, S0212: 3, H0009: 3, L0157: 3, L0471: 3, H0024: 3, H0494: 3, L0763: 3, L0637: 3, L0646: 3, L0764: 3, S0052: 3, H0672: 3, L0748: 3, L0750: 3, L0752: 3, L0755: 3, L0608: 3, S0026: 3, H0543: 3, H0171: 2, H0556: 2, H0657: 2, L0785: 2, S0420: 2, L0005: 2, H0156: 2, S0474: 2, H0581: 2, H0251: 2, H0545: 2, H0373: 2, H0477: 2, H0412: 2, H0413: 2, T0041: 2, S0466: 2, H0641: 2, S0144: 2, L0372: 2, L0774: 2, L0805: 2, L0783: 2, L0664: 2, S0374: 2, L0438: 2, H0658: 2, H0670: 2, H0660: 2, H0539: 2, H0522: 2, H0436: 2, L0742: 2, L0777: 2,		
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HPCQQ66	HPCQQ66R	1795	113 - 271	3970								
HPCQT27	HPCQT27R	1796	119 - 265	3971								
HPCQT88	HPCQT88R	1797	1 - 345	3972								
HPCQW64	HPCQW64R	1798	2 - 229	3973	Pro-3 to Cys-9, Asn-28 to Phe-37.							
HPCQW77	HPCQW77R	1799	259 - 408	3974		L0758: 6, L0779: 5, L0766: 4, L0731: 4,						

HPCQX47	HPCQX47R	1800	174 - 326	3975	Lys-1 to Val-6.	S0360: 2, L0769: 2, L0649: 2, H0648: 2, L0744: 2, L0740: 2, L0747: 2, L0777: 2, L0755: 2, L0757: 2, L0599: 2, H0171: 1, T0049: 1, H0657: 1, H0255: 1, H0638: 1, S0408: 1, H0619: 1, H0037: 1, H0052: 1, L0471: 1, H0014: 1, H0316: 1, S0438: 1, L0520: 1, L0763: 1, L0770: 1, L0637: 1, L0761: 1, L0373: 1, L0764: 1, L0774: 1, L0775: 1, L0375: 1, L0776: 1, L0655: 1, L0527: 1, L0542: 1, L0382: 1, L0519: 1, H0144: 1, H0682: 1, H0659: 1, H0660: 1, H0696: 1, H0555: 1, S3012: 1, L0439: 1, L0751: 1, L0754: 1, L0745: 1, L0749: 1, L0752: 1, L0759: 1, H0542: 1, S0458: 1 and S0384: 1.		
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HPCTI39	HPCTI39R	1808	1 - 114	3983						
HPCTI86	HPCTI86R	1809	1 - 306	3984	Lys-37 to Arg-42, Ser-74 to Thr-81.					
HPCTN62	HPCTN62R	1810	341 - 451	3985	Arg-6 to Asp-15.					
HPCTO69	HPCTO69R	1811	23 - 538	3986						
HPCTP60	HPCTP60R	1812	191 - 343	3987			H0052: 3, H0624: 2, H0014: 2, H0375: 2, L0598: 2, L0662: 2, L0803: 2, L0792: 2, L0666: 2, L0664: 2, H0659: 2, L0742: 2, L0743: 2, L0754: 2, H0423: 2, H0171: 1, H0686: 1, S0360: 1, H0486: 1, H0194: 1, L0041: 1, L0471: 1, H0687: 1, H0040: 1, H0264: 1, S0440: 1, S0422: 1, L0761: 1, L0646: 1, L0804: 1,			



HPCTR60	HPCTR60R	1813	307 - 495	3988			L0352: 1, H0670: 1, L0744: 1, L0740: 1, L0780: 1, L0759: 1 and H0506: 1.		
							L0803: 2, H0413: 1, L0650: 1, L0666: 1, H0689: 1, H0659: 1, H0658: 1, L0758: 1, L0759: 1 and S0242: 1.		
HPCTT47	HPCTT47R	1814	3 - 128	3989	Gly-4 to Lys-9.				
HPCTV40	HPCTV40R	1815	3 - 377	3990					
HPCTV53	HPCTV53R	1816	2 - 274	3991	Pro-7 to Ala-13.				
HPCTV92	HPCTV92R	1817	2 - 205	3992					
HPCTX22	HPCTX22R	1818	1 - 153	3993	Asn-27 to Lys-36.		L0439: 11, L0740: 10, L0752: 10, L0659: 8, L0748: 7, L0005: 6, S0358: 6, L0471: 6, S0214: 6, L0803: 6, L0517: 6, L0666: 6, L0759: 6, L0664: 5, L0665: 5, S0126: 5, H0574: 4, H0156: 4, L0646: 4, L0771: 4, L0766: 4, S0374: 4, H0659: 4, L0754: 4, L0749: 4, L0731: 4, L0362: 4, H0170: 3, H0341: 3, H0632: 3, S0003: 3, H0413: 3, H0529: 3, L0369: 3,		

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HPCTY38	HPCTY38R	1819	381 - 578	3994		L0666: 19, L0752: 14, S0358: 12, L0770: 10, L0439: 10, L0754: 10, L0659: 8, H0574: 7, L0663: 7, L0664: 7, H0659: 7, L0758: 7, L0759: 7, S0408: 6, H0519: 6, L0740: 6, L0750: 6, L0731: 6,				

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HPDOA92	HPDOA92R	1820	57 - 209	3995	Asp-1 to Leu-6.						
HPDOF32	HPDOF32R	1821	1 - 99	3996							
HPDOF81	HPDOF81R	1822	3 - 287	3997	Gln-20 to Leu-25.						
HPDOP05	HPDOP05R	1823	2 - 412	3998	Asp-11 to Val-19, Cys-36 to Asp-58, Lys-102 to Lys-111, Ile-115 to Ala-125, Val-127 to Gln-132.	L0747: 12, L0750: 12, H0052: 9, H0547: 8, H0659: 8, L0439: 8, L0752: 8, S0360: 7, S0408: 7, S0222: 6, S0010: 6, H0494: 6, H0144: 6, H0657: 5, S0358: 5, H0393: 5, H0373: 5, H0551: 5, L0775: 5, L0666: 5, L0758: 5, H0542: 5, H0486: 4, H0013: 4, H0545: 4, H0046: 4, L0471: 4, H0687: 4,					

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HPDOP20	HPDOP20R	1824	3 - 512	3999			H0529: 1, L0536: 1, L0770: 1, L0761: 1, L0772: 1, L0373: 1, L0771: 1, L0648: 1, L0662: 1, L0803: 1, L0606: 1, L0629: 1, L0636: 1, L0517: 1, L0526: 1, L0783: 1, L0384: 1, L0544: 1, L0367: 1, H0697: 1, S0122: 1, H0689: 1, H0711: 1, H0683: 1, H0658: 1, H0660: 1, H0648: 1, H0672: 1, H0539: 1, H0710: 1, H0518: 1, H0521: 1, H0555: 1, H0478: 1, S0037: 1, L0740: 1, L0754: 1, L0756: 1, L0777: 1, L0753: 1, S0434: 1, L0588: 1, L0591: 1, L0594: 1, H0668: 1, S0026: 1, H0422: 1 and S0424: 1.		
HPDOS87	HPDOS87R	1825	3 - 272	4000					
HPDOU54	HPDOU54R	1826	3 - 287	4001			H0694: 48, L0777: 14, H0521: 11, L0794: 10, L0748: 10, L0747: 10, S0214: 9, S0360: 8,		

	S0003: 8, H0644: 8, L0439: 8, H0553: 7, L0662: 7, L0659: 7, L0588: 7, H0543: 7, H0038: 6, L0646: 6, H0436: 6, L0740: 6, H0341: 5, S0358: 5, H0580: 5, H0545: 5, H0494: 5, L0666: 5, L0665: 5, L0779: 5, L0599: 5, H0542: 5, H0656: 4, H0486: 4, H0046: 4, H0014: 4, H0551: 4, S0440: 4, H0529: 4, L0764: 4, L0809: 4, S0126: 4, S0406: 4, L0757: 4, S0436: 4, L0591: 4, L0485: 4, L0362: 4, H0423: 4, H0624: 3, S0376: 3, S0444: 3, S0408: 3, S0410: 3, H0581: 3, H0031: 3, H0090: 3, S0142: 3, L0770: 3, L0637: 3, L0772: 3, L0521: 3, L0766: 3, L0774: 3, L0663: 3, L0664: 3, T0068: 3, H0547: 3, H0539: 3, L0758: 3,				
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HPDOZ43	HPDOZ43R	1827	1 - 504	4002										
HPDPC65	HPDPC65RA	1828	2 - 178	4003										
HPDPC90	HPDPC90RA	1829	294 - 485	4004	Pro-6 to Gly-35, Arg-41 to Glu-47.									
HPDPH14	HPDPH14R	1830	94 - 291	4005										

HPDPK37	HPDPK37R	1831	1 - 420	4006					
HPDPN83	HPDPN83R	1832	365 - 3	4007				L0784: 2, H0428: 1, H0644: 1, S0366: 1, L0659: 1, L0636: 1, L0789: 1 and H0658: 1.	
HPDPP69	HPDPP69R	1833	260 - 463	4008				L0766: 2 and H0658: 2.	
HPDPQ10	HPDPQ10R	1834	369 - 581	4009	Gln-15 to Arg-20, Arg-35 to Ser-40.				
HPDPQ16	HPDPQ16R	1835	244 - 456	4010	Ile-5 to Lys-20.			L0794: 4, H0351: 3, H0083: 2, H0520: 2, H0658: 2, H0657: 1, H0341: 1, S0358: 1, L0586: 1, L0021: 1, T0110: 1, H0328: 1, H0040: 1, H0616: 1, H0625: 1, S0438: 1, S0440: 1, S0150: 1, H0130: 1, H0641: 1, L0800: 1, L0768: 1, L0803: 1, L0776: 1, L0657: 1, H0660: 1, S0328: 1, S0380: 1, S0406: 1, L0747: 1, H0343: 1, H0136: 1, H0423: 1, H0422: 1 and S0424: 1.	
HPDPR73	HPDPR73R	1836	80 - 463	4011	Asp-28 to His-35, Phe-43 to Trp-48, Asn-81 to Arg-86.				

HPDPS51	HPDPS51R	1837	2 - 214	4012		L0770: 4, L0771: 4, L0769: 3, L0757: 3, L0766: 2, L0779: 2, L0758: 2, H0170: 1, H0686: 1, S0476: 1, H0586: 1, L0637: 1, L0761: 1, L0803: 1, L0774: 1, L0776: 1, L0659: 1, L0809: 1, L0791: 1, H0658: 1, H0696: 1, S3012: 1, S0390: 1, L0747: 1, L0752: 1, L0753: 1, L0759: 1, S0434: 1, L0592: 1 and H0543: 1.		
HPDPS90	HPDPS90R	1838	2 - 421	4013				
HPDPT86	HPDPT86R	1839	378 - 533	4014	Asp-17 to Asn-30.	L0439: 4, H0658: 2, S0474: 1, L0794: 1, L0804: 1, L0791: 1, L0755: 1 and L0599: 1.		
HPDPU66	HPDPU66R	1840	2 - 262	4015				
HPDPX12	HPDPX12RP 00B	1841	2 - 418	4016				
HPDPY83	HPDPY83RP 00B	1842	148 - 405	4017	Lys-32 to Glu-39, Glu-43 to Ala-50, Ala-52 to Glu-80.			
HPDQC34	HPDQC34R	1843	1 - 693	4018				
HPDQG58	HPDQG58R	1844	2 - 235	4019				
HPDQH11	HPDQH11R	1845	2 - 334	4020				



HPDQH34	HPDQH34R	1846	105 - 308	4021	Gln-12 to Ser-19, Gln-40 to Gln-54.			
HPDQI50	HPDQI50R	1847	3 - 545	4022		H0052: 11, L0439: 10, L0775: 8, H0046: 7, L0748: 7, L0438: 6, L0750: 6, L0666: 5, L0599: 5, S0358: 4, H0620: 4, H0038: 4, H0413: 4, L0369: 4, L0769: 4, L0659: 4, L0665: 4, S0328: 4, L0758: 4, S0418: 3, S0442: 3, S0410: 3, H0619: 3, H0599: 3, L0662: 3, L0768: 3, L0774: 3, L0653: 3, H0660: 3, H0521: 3, L0731: 3, S0434: 3, L0601: 3, S0026: 3, S0424: 3, H0556: 2, T0002: 2, H0295: 2, H0583: 2, H0656: 2, S0376: 2, S0444: 2, H0580: 2, S0045: 2, S0046: 2, S0222: 2, H0592: 2, H0586: 2, N0009: 2, H0013: 2, H0575: 2, H0618: 2, H0318: 2, H0196: 2, H0012: 2, H0373: 2,		

T0010: 2, S6028: 2, S0214: 2, H0031: 2, L0456: 2, H0708: 2, H0551: 2, H0264: 2, S0440: 2, H0509: 2, H0529: 2, L0763: 2, L0638: 2, L0637: 2, L0764: 2, L0381: 2, L0657: 2, L0783: 2, L0663: 2, S0152: 2, H0478: 2, S0028: 2, L0741: 2, L0777: 2, L0596: 2, L0588: 2, L0589: 2, L0605: 2, L0604: 2, H0665: 2, H0136: 2, H0543: 2, H0170: 1, H0265: 1, S0040: 1, H0717: 1, H0657: 1, L0417: 1, L0785: 1, H0381: 1, S0116: 1, H0341: 1, H0664: 1, H0402: 1, H0450: 1, S0356: 1, S0360: 1, H0208: 1, S0476: 1, H0411: 1, H0409: 1, H0613: 1, H0587: 1, H0497: 1, H0333: 1, H0643: 1, H0574: 1, L0623: 1, T0039: 1, H0427: 1,						
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HPDQI55	HPDQI55R	1848	1 - 441	4023				H0519: 1, H0711: 1, H0659: 1, H0658: 1, H0666: 1, H0648: 1, H0672: 1, S0378: 1, L0602: 1, H0518: 1, H0522: 1, S0406: 1, H0555: 1, H0187: 1, S0027: 1, S0032: 1, L0742: 1, L0754: 1, L0747: 1, L0780: 1, L0757: 1, L0759: 1, S0031: 1, S0436: 1, L0592: 1, L0581: 1, L0608: 1, L0593: 1, L0362: 1, L0366: 1, H0667: 1, H0542: 1, H0422: 1 and H0352: 1.		
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							H0373: 1, H0510: 1, S0003: 1, H0644: 1, H0316: 1, S0036: 1, H0063: 1, H0264: 1, H0509: 1, L0762: 1, L0662: 1, L0794: 1, L0649: 1, L0659: 1, L0518: 1, L0783: 1, L0789: 1, H0144: 1, H0547: 1, H0659: 1, H0658: 1, S0328: 1, H0696: 1, L0747: 1, L0780: 1, L0731: 1, L0588: 1, L0591: 1, L0599: 1 and L0595: 1.			
HPDQI70	HPDQI70R	1849	2 - 646	4024						
HPDQL55	HPDQL55R	1850	256 - 711	4025	Pro-5 to Arg-25, Lys-32 to Ser-39, Pro-63 to Pro-79, Pro-115 to His-121.		L0774: 3, L0809: 2, H0483: 1, H0306: 1, H0599: 1, H0618: 1, H0083: 1, H0644: 1, H0617: 1, H0606: 1, H0087: 1, L0369: 1, L0763: 1, L0643: 1, L0662: 1, L0794: 1, L0804: 1, L0790: 1, L0665: 1, H0658: 1, H0696: 1, L0748: 1, L0780: 1 and L0757: 1.			
HPDQR20	HPDQR20R	1851	1 - 639	4026			L0777: 21, L0748: 16, L0439: 12, S0360: 9,			

				L0659: 9, L0666: 9, L0803: 8, L0662: 7, L0747: 7, L0794: 6, L0663: 5, S0406: 5, L0770: 4, L0731: 4, L0758: 4, S0026: 4, S0356: 3, L0717: 3, H0156: 3, L0769: 3, L0809: 3, L0664: 3, H0520: 3, H0672: 3, H0521: 3, H0696: 3, L0750: 3, S0192: 3, H0542: 3, H0423: 3, H0624: 2, H0657: 2, S0420: 2, S0358: 2, S0376: 2, S0408: 2, H0013: 2, S0003: 2, S0214: 2, H0264: 2, H0412: 2, H0413: 2, S0440: 2, L0764: 2, L0766: 2, L0804: 2, L0774: 2, L0775: 2, L0806: 2, L0655: 2, L0665: 2, S0374: 2, L0438: 2, H0547: 2, H0519: 2, H0689: 2, H0660: 2, S0380: 2, H0522: 2, S0206: 2, L0749: 2, L0752: 2, L0759: 2, L0361: 2,	
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	S0242: 2, H0170: 1, H0171: 1, L0448: 1, H0685: 1, H0716: 1, S0114: 1, H0656: 1, L0785: 1, S0400: 1, S0442: 1, S0444: 1, S0300: 1, S0222: 1, H0431: 1, H0586: 1, H0632: 1, L0623: 1, H0069: 1, H0036: 1, H0581: 1, H0309: 1, H0263: 1, H0327: 1, H0545: 1, H0150: 1, L0471: 1, H0024: 1, H0014: 1, T0010: 1, H0083: 1, H0252: 1, H0615: 1, H0688: 1, H0622: 1, L0483: 1, H0068: 1, S0366: 1, H0598: 1, H0163: 1, H0090: 1, H0040: 1, T0067: 1, H0623: 1, T0069: 1, H0494: 1, S0372: 1, S0448: 1, H0714: 1, H0641: 1, S0142: 1, S0210: 1, L0369: 1, L0646: 1, L0641: 1, L0771: 1, L0387: 1, L0651: 1, L0378: 1, L0653: 1,	
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HPDQR88	HPDQR88R	1852	2 - 550	4027	Gln-121 to Glu-136, Ala-153 to Ser-162, Ala-176 to Ser-182.	L0542: 1, L0647: 1, L0787: 1, H0658: 1, H0670: 1, H0648: 1, H0539: 1, H0710: 1, S0332: 1, H0478: 1, H0627: 1, L0755: 1, S0436: 1, L0605: 1, L0362: 1, H0667: 1, S0276: 1, H0543: 1, H0422: 1, H0506: 1 and H0352: 1.		
HPDQS14	HPDQS14R	1853	113 - 325	4028				
HPDQS25	HPDQS25R	1854	25 - 273	4029				
HPDQS63	HPDQS63R	1855	25 - 258	4030	Phe-25 to Arg-34, Cys-51 to His-56, Glu-66 to Ser-75.			
HPDQS66	HPDQS66R	1856	134 - 322	4031		H0658: 2, L0745: 2, S0422: 1, H0648: 1 and L0731: 1.		
HPDQS76	HPDQS76R	1857	41 - 175	4032	His-2 to Trp-13, Lys-22 to Cys-31.	L0748: 9, L0774: 3, H0331: 2, H0632: 2, L0526: 2, H0658: 2, L0581: 2, H0574: 1 and L0790: 1.		
HPDQT32	HPDQT32R	1858	3 - 410	4033	Gly-17 to Glu-26, Lys-32 to Leu-37, Phe-46 to Thr-52,	H0542: 11, H0265: 7, H0543: 7, L0751: 5, S0424: 5, H0556: 4,		



Ile-103 to Gly-109, Lys-128 to Gln-136.	S0420: 4, S0010: 4, S0142: 4, L0659: 4, L0743: 4, L0747: 4, L0753: 4, H0657: 3, H0370: 3, H0618: 3, H0251: 3, H0545: 3, H0457: 3, H0620: 3, H0644: 3, H0560: 3, L0775: 3, L0663: 3, H0672: 3, S3012: 3, L0748: 3, S0212: 2, S0418: 2, S0360: 2, H0580: 2, S0222: 2, H0427: 2, H0253: 2, S0049: 2, H0327: 2, L0471: 2, H0617: 2, H0124: 2, S0366: 2, H0412: 2, L0667: 2, L0655: 2, H0690: 2, H0682: 2, H0658: 2, H0670: 2, H0660: 2, H0627: 2, S0027: 2, L0741: 2, L0740: 2, H0506: 2, H0170: 1, T0002: 1, H0686: 1, H0381: 1, H0484: 1, H0255: 1, H0663: 1, H0664: 1, H0638: 1, S0358: 1, H0675: 1, H0637: 1, S0468: 1,
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H0208: 1, S0132: 1, S0278: 1, S0005: 1, H0497: 1, H0156: 1, L0021: 1, H0318: 1, H0052: 1, T0103: 1, H0544: 1, H0178: 1, H0172: 1, S0051: 1, H0083: 1, H0355: 1, H0510: 1, H0594: 1, H0188: 1, H0687: 1, H0622: 1, L0194: 1, L0483: 1, T0006: 1, H0033: 1, H0424: 1, H0031: 1, H0606: 1, H0166: 1, H0674: 1, H0591: 1, H0063: 1, H0087: 1, T0067: 1, L0351: 1, H0494: 1, H0561: 1, S0352: 1, S0440: 1, H0633: 1, H0647: 1, S0144: 1, S0344: 1, S0426: 1, H0529: 1, L0369: 1, L0372: 1, L0646: 1, L0800: 1, L0662: 1, L0768: 1, L0766: 1, L0650: 1, L0376: 1, L0776: 1, L0657: 1, L0636: 1, L0542: 1, L0783: 1, L0787: 1,						
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HPDQU81	HPDQU81R	1859	3 - 269	4034	Pro-25 to Thr-32.	L0666: 1, L0664: 1, L0665: 1, H0593: 1, H0684: 1, H0435: 1, H0659: 1, S0328: 1, S0330: 1, H0539: 1, S0378: 1, H0521: 1, H0555: 1, H0631: 1, L0744: 1, L0750: 1, L0777: 1, L0752: 1, L0757: 1, L0758: 1, L0596: 1, L0485: 1, L0593: 1, L0601: 1, S0011: 1, S0026: 1, S0192: 1 and H0352: 1. L0731: 4, L0775: 3, L0740: 3, H0170: 2, S0426: 2, L0770: 2, L0646: 2, L0766: 2, L0754: 2, H0344: 1, H0295: 1, H0393: 1, H0592: 1, H0318: 1, S6028: 1, H0038: 1, H0551: 1, L0642: 1, L0803: 1, L0774: 1, L0776: 1, L0663: 1, H0658: 1, S0332: 1, L0748: 1, L0777: 1, L0752: 1, L0757: 1, H0445: 1, S0424: 1 and S0384: 1.		
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HPDQV07	HPDQV07R	1860	2 - 421	4035				
HPDQV49	HPDQV49R	1861	246 - 401	4036				
HPDQW39	HPDQW39R	1862	68 - 550	4037	Asn-20 to Asp-25, Met-75 to Asp-81, Arg-144 to Thr-152.	AR104: 42, AR089: 22, AR060: 7, AR096: 4, AR055: 2, AR061: 1		
HPDQX13	HPDQX13R	1863	113 - 391	4038	Lys-1 to Leu-23, Ala-27 to Ser-34, Gly-36 to Phe-44.			
HPDQY23	HPDQY23R	1864	3 - 476	4039				
HPDQY65	HPDQY65R	1865	3 - 437	4040				
HPDQY88	HPDQY88R	1866	164 - 340	4041				
HPDQY95	HPDQY95R	1867	29 - 430	4042	Leu-11 to Cys-24, Leu-30 to Ser-36, Gly-93 to Glu-99.			
HPDQZ30	HPDQZ30R	1868	212 - 538	4043				
HPDQZ65	HPDQZ65R	1869	3 - 506	4044	Ser-120 to Tyr-126, Gly-137 to Arg-142, Ser-160 to Ser-168.			
HPDRA44	HPDRA44R	1870	1 - 525	4045				
HPDRA50	HPDRA50R	1871	1 - 384	4046				
HPDRF65	HPDRF65R	1872	230 - 559	4047	Glu-1 to Pro-9.			
HPDRG34	HPDRG34R	1873	79 - 270	4048		H0031: 2, H0135: 1, H0272: 1 and H0658: 1.		
HPDRG73	HPDRG73R	1874	2 - 481	4049	Ala-2 to Gly-8.			
HPDRM77	HPDRM77R	1875	1 - 177	4050				
HPDRM93	HPDRM93R	1876	3 - 302	4051				
HPDRO04	HPDRO04R	1877	2 - 307	4052	Gly-1 to Cys-24,			

					Cys-27 to Gly-43, Ala-46 to Trp-54, Ala-56 to Arg-68, Phe-83 to Arg-93.				
HPDRO64	HPDRO64R	1878	249 - 509	4053	Thr-4 to His-17, Ser-21 to Gln-27.			S0132: 1, H0156: 1, H0575: 1, H0551: 1, H0658: 1, H0670: 1, H0555: 1 and L0439: 1.	
HPDRP36	HPDRP36R	1879	3 - 323	4054	Thr-57 to Phe-62, Gly-68 to Phe-73, His-86 to Tyr-92, Asp-97 to Phe-103.			L0766: 11, L0752: 7, L0754: 5, H0547: 4, S0358: 3, S0022: 3, L0756: 3, L0777: 3, H0625: 2, L0065: 2, S0438: 2, L0805: 2, L0776: 2, H0658: 2, S0328: 2, L0740: 2, L0745: 2, L0747: 2, L0750: 2, L0731: 2, L0601: 2, H0542: 2, H0543: 2, H0423: 2, S0424: 2, H0341: 1, H0661: 1, H0664: 1, H0306: 1, H0402: 1, H0638: 1, S0360: 1, H0580: 1, H0645: 1, H0443: 1, H0357: 1, H0592: 1, H0587: 1, H0574: 1, H0486: 1, H0270: 1, H0156: 1, T0048: 1, H0052: 1,	

							H0375: 1, H0687: 1, H0328: 1, H0169: 1, H0598: 1, H0551: 1, H0413: 1, T0042: 1, H0561: 1, S0422: 1, H0529: 1, L0520: 1, L0536: 1, L0772: 1, L0649: 1, L0803: 1, L0809: 1, L0666: 1, L0665: 1, H0144: 1, H0520: 1, H0519: 1, H0659: 1, H0651: 1, S0380: 1, H0696: 1, S0404: 1, S0406: 1, H0555: 1, L0744: 1, L0749: 1, L0753: 1, L0757: 1, L0759: 1, H0445: 1, S0434: 1, S0436: 1, L0599: 1, L0608: 1, L0594: 1 and H0422: 1.			
HPDRP41	HPDRP41R	1880	2 - 622	4055	Gly-8 to Val-14, Gln-20 to Asp-27, Met-79 to His-88, Arg-171 to Tyr-183, Pro-198 to Gly-204.					
HPDRQ66	HPDRQ66R	1881	27 - 290	4056		L0748: 3, H0556: 2, S0420: 2, S0045: 2, H0171: 1, H0265: 1, S0134: 1, H0657: 1,				

						H0341: 1, S0110: 1, H0661: 1, H0305: 1, H0580: 1, S0007: 1, S0046: 1, S0132: 1, S0278: 1, H0257: 1, H0069: 1, H0575: 1, T0048: 1, H0327: 1, H0252: 1, H0634: 1, H0412: 1, H0059: 1, H0633: 1, S0344: 1, H0529: 1, L0521: 1, L0806: 1, L0805: 1, H0435: 1, H0658: 1, H0672: 1, S0378: 1, L0747: 1, L0599: 1, S0026: 1 and H0542: 1.			
HPDRQ84	HPDRQ84R	1882	1 - 441	4057	Gly-6 to Ser-16, Glu-19 to Ala-33, Glu-44 to Lys-60, Ile-135 to Lys-147.				
HPDRR71	HPDRR71R	1883	1 - 543	4058	Ala-3 to Lys-11, Gly-112 to Glu-117.				
HPDRS43	HPDRS43R	1884	59 - 211	4059					
HPDRS46	HPDRS46R	1885	3 - 332	4060	Lys-94 to Ser-100.				
HPDRS87	HPDRS87R	1886	2 - 508	4061	Lys-32 to Glu-38, Ser-44 to Ser-55, Gln-67 to Gly-78, Glu-85 to Glu-90, Gly-108 to Ser-114, Phe-149 to Lys-158.				

HPDRT36	HPDRT36R	1887	59 - 214	4062	Lys-25 to Arg-36.	L0754: 19, L0731: 18, H0521: 15, L0777: 11, L0766: 8, L0755: 7, H0581: 6, L0659: 6, L0751: 6, H0486: 5, H0266: 5, H0553: 5, L0662: 5, L0663: 5, H0144: 5, L0439: 5, S0276: 5, H0638: 4, S0360: 4, H0644: 4, S0374: 4, S0330: 4, L0740: 4, L0756: 4, L0599: 4, L0362: 4, H0423: 4, H0657: 3, H0663: 3, H0580: 3, H0575: 3, S0003: 3, H0622: 3, H0124: 3, H0264: 3, H0623: 3, S0002: 3, L0520: 3, L0764: 3, L0775: 3, L0655: 3, L0519: 3, H0519: 3, H0659: 3, H0658: 3, S0328: 3, L0744: 3, L0747: 3, L0759: 3, S0026: 3, S0194: 3, H0624: 2, H0656: 2, H0341: 2, S0354: 2, S0408: 2, S0046: 2, H0619: 2, H0013: 2, H0250: 2,		
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				H0545: 2, L0471: 2, H0428: 2, L0142: 2, H0551: 2, T0067: 2, H0561: 2, H0641: 2, S0210: 2, L0772: 2, L0771: 2, L0794: 2, L0803: 2, L0661: 2, L0544: 2, L0793: 2, L0666: 2, L0665: 2, S0216: 2, L0565: 2, H0648: 2, S0152: 2, H0522: 2, H0555: 2, H0345: 2, S0027: 2, L0750: 2, L0779: 2, L0752: 2, L0758: 2, H0445: 2, S0434: 2, L0591: 2, L0594: 2, H0653: 2, H0422: 2, H0159: 1, S0134: 1, H0583: 1, H0650: 1, S0212: 1, H0661: 1, H0662: 1, H0402: 1, S0358: 1, S0444: 1, T0008: 1, S0045: 1, S0132: 1, H0411: 1, H0369: 1, H0370: 1, T0039: 1, T0060: 1, H0042: 1, H0590: 1, T0048: 1, H0318: 1, H0596: 1, L0738: 1,	
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	H0046: 1, L0157: 1, H0565: 1, H0024: 1, S0388: 1, H0267: 1, S0250: 1, S0214: 1, H0328: 1, H0030: 1, H0383: 1, H0673: 1, H0169: 1, H0316: 1, H0163: 1, H0090: 1, H0591: 1, H0040: 1, H0634: 1, H0488: 1, H0268: 1, H0412: 1, H0413: 1, H0056: 1, L0435: 1, H0494: 1, S0370: 1, H0646: 1, H0652: 1, S0344: 1, S0426: 1, L0371: 1, L0646: 1, L0800: 1, L0765: 1, L0648: 1, L0768: 1, L0389: 1, L0552: 1, L0774: 1, L0805: 1, L0653: 1, L0776: 1, L0658: 1, L0542: 1, L0809: 1, L0647: 1, H0701: 1, H0691: 1, S0126: 1, H0711: 1, H0683: 1, H0518: 1, S0454: 1, S0013: 1, H0479: 1, S0206: 1, L0743: 1, S0260: 1, H0343: 1,				
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							L0584: 1, H0542: 1 and S0412: 1.			
HPDRT37	HPDRT37R	1888	3 - 560	4063	Ala-2 to Asp-9, Arg-18 to Gly-26, Asn-34 to Arg-43, Ala-52 to Asp-57. Leu-48 to Lys-63.					
HPDRT38	HPDRT38R	1889	2 - 196	4064						
HPDRU03	HPDRU03R	1890	2 - 334	4065						
HPDRU37	HPDRU37R	1891	1 - 297	4066	Glu-11 to Pro-16, Arg-46 to Tyr-56, Asp-63 to Asp-69.					
HPDRU71	HPDRU71R	1892	458 - 703	4067						
HPDRV73	HPDRV73R	1893	1 - 528	4068	Glu-54 to Val-64, Leu-97 to Leu-105.					
HPDRV79	HPDRV79R	1894	300 - 596	4069	Ser-14 to Gly-20.		L0794: 6, L0758: 6, L0747: 5, L0770: 4, L0809: 4, H0620: 3, L0764: 3, H0658: 3, H0618: 2, H0012: 2, H0135: 2, L0769: 2, L0771: 2, L0773: 2, L0662: 2, L0803: 2, L0532: 2, S0126: 2, L0756: 2, S6024: 1, S0282: 1, H0638: 1, S0420: 1, L0717: 1, S0222: 1, H0441: 1, H0333: 1, L0622: 1, H0309: 1, H0597: 1, S0388: 1, S0051: 1,			

							T0010: 1, H0271: 1, H0687: 1, L0483: 1, H0604: 1, H0030: 1, H0181: 1, H0617: 1, H0412: 1, L0667: 1, L0646: 1, L0800: 1, L0643: 1, L0374: 1, L0364: 1, L0766: 1, L0649: 1, L0804: 1, L0523: 1, L0805: 1, L0655: 1, L0607: 1, L0657: 1, L0559: 1, L0659: 1, L0517: 1, L0529: 1, L0647: 1, L0787: 1, L0789: 1, L0666: 1, L0663: 1, L0665: 1, T0068: 1, L0438: 1, H0670: 1, H0627: 1, L0748: 1, L0439: 1, L0751: 1, L0777: 1, L0731: 1, L0757: 1, S0031: 1, L0605: 1, H0542: 1, H0543: 1, H0423: 1, L0697: 1 and S0462: 1.			
HPDRW09	HPDRW09R	1895	1 - 231	4070	Ala-31 to Gln-37, Lys-63 to Ser-69.					
HPDRW51	HPDRW51R	1896	192 - 587	4071						
HPDRY37	HPDRY37R	1897	2 - 322	4072	Pro-3 to Gly-8, Pro-70 to Pro-85.					

HPDRZ11	HPDRZ11R	1898	1 - 354	4073	Arg-13 to Gly-26, Asn-35 to Gln-40.			
HPDRZ29	HPDRZ29R	1899	3 - 509	4074	Val-30 to Trp-36, Ala-53 to Glu-67.	H0457: 9, L0766: 7, H0046: 5, H0650: 4, H0634: 3, L0659: 3, L0439: 3, H0716: 2, H0656: 2, H0254: 2, H0255: 2, H0333: 2, H0253: 2, H0081: 2, H0083: 2, H0628: 2, L0761: 2, L0800: 2, H0658: 2, L0750: 2, H0543: 2, H0422: 2, H0265: 1, H0657: 1, S0001: 1, S0420: 1, S0354: 1, S0376: 1, S0360: 1, H0722: 1, S0045: 1, H0550: 1, S0222: 1, H0614: 1, H0613: 1, H0069: 1, H0427: 1, H0575: 1, H0318: 1, H0581: 1, H0052: 1, H0327: 1, H0545: 1, H0041: 1, H0050: 1, H0354: 1, H0266: 1, H0179: 1, H0428: 1, H0622: 1, S0366: 1, S0036: 1, H0087: 1, H0264: 1, H0488: 1, L0435: 1,		

HPDVA01	HPDVA01R	1900	774 - 484	4075				H0022: 1, T0041: 1, H0560: 1, S0142: 1, S0426: 1, H0695: 1, H0529: 1, L0644: 1, L0764: 1, L0662: 1, L0649: 1, L0375: 1, L0805: 1, L0658: 1, L0809: 1, L0789: 1, L0792: 1, L0532: 1, L0663: 1, L0664: 1, L0665: 1, H0670: 1, H0672: 1, S0330: 1, H0539: 1, H0518: 1, H0521: 1, S0406: 1, H0555: 1, H0436: 1, S3012: 1, S3014: 1, S0027: 1, S0028: 1, L0744: 1, L0749: 1, L0756: 1, H0445: 1, S0434: 1, H0136: 1, S0276: 1 and H0542: 1.		
HPDVA06	HPDVA06R	1901	243 - 380	4076						
HPDVB37	HPDVB37R	1902	40 - 315	4077	Pro-2 to Lys-18.			L0748: 10, L0803: 3, L0439: 3, L0751: 3, L0626: 2, L0809: 2, L0790: 2, H0658: 2, L0744: 2, L0740: 2, L0754: 2, L0747: 2, L0756: 2, L0752: 2,		

							L0758: 2, H0170: 1, H0645: 1, H0351: 1, H0370: 1, H0497: 1, S0388: 1, T0067: 1, L0772: 1, L0643: 1, L0662: 1, L0794: 1, L0804: 1, L0774: 1, L0776: 1, L0666: 1, L0663: 1, L0665: 1, L0438: 1, S0044: 1, L0745: 1, L0749: 1, L0755: 1, L0757: 1 and S0031: 1.			
HPDVB70	HPDVB70R	1903	2 - 778	4078						
HPDVC28	HPDVC28R	1904	50 - 136	4079						
HPDVE55	HPDVE55R	1905	89 - 220	4080	Pro-8 to Pro-13.					
HPDVG06	HPDVG06R	1906	3 - 326	4081	Gln-22 to Val-33, Pro-37 to Gly-45, Ser-56 to Thr-65, Arg-82 to Thr-92.					
HPDVG67	HPDVG67R	1907	193 - 450	4082	Glu-79 to Gln-86.					
HPDVI25	HPDVI25R	1908	1 - 510	4083	Met-32 to Lys-37, Asp-44 to Ala-60.					
HPDVI95	HPDVI95R	1909	3 - 338	4084	Ala-32 to Thr-42, Lys-55 to Phe-60, Asp-85 to Gly-90, Arg-95 to Thr-100.					
HPDVK74	HPDVK74R	1910	3 - 425	4085	Ile-20 to Gly-29, Asn-82 to Thr-87.					

HPDVK79	HPDVK79R	1911	61 - 597	4086	Arg-8 to Lys-13, Gly-35 to Lys-42, Ala-48 to Lys-54.			
HPDVK93	HPDVK93R	1912	2 - 697	4087				
HPDVL36	HPDVL36R	1913	8 - 265	4088				
HPDVL45	HPDVL45R	1914	1 - 303	4089	Gly-1 to Phe-8, Pro-39 to Thr-61, Pro-66 to Phe-71, Arg-84 to Pro-89.	H0656: 3, S0218: 1, S0116: 1, S0356: 1, H0586: 1, H0333: 1, H0486: 1, H0427: 1, S0280: 1, H0545: 1, H0135: 1, H0087: 1, H0695: 1, H0547: 1, H0435: 1, H0658: 1, H0670: 1, H0672: 1, H0521: 1, L0439: 1, H0543: 1 and H0423: 1.		
HPDVL52	HPDVL52R	1915	60 - 350	4090	Ala-5 to Val-11, Leu-15 to Lys-23, Lys-39 to Ile-44.	H0656: 1, S0116: 1, S0376: 1, T0110: 1, T0042: 1, H0494: 1, L0649: 1, L0774: 1, L0665: 1, H0658: 1, L0748: 1, L0757: 1, H0667: 1 and H0543: 1.		
HPDVM61	HPDVM61R	1916	101 - 364	4091	Lys-13 to Leu-24, Arg-31 to Pro-54.			
HPDVM63	HPDVM63R	1917	1 - 576	4092	Ala-34 to Thr-46, Asp-59 to Lys-73, Ala-86 to Gln-94, Pro-99 to Gln-109, Glu-129 to Thr-141.			



HPDVM86	HPDVM86R	1918	2 - 406	4093	Asp-160 to Asn-168. Ala-33 to Cys-41, Thr-58 to Pro-66.	H0521: 43, S0278: 39, S0144: 30, S0142: 26, H0522: 18, S0344: 15, S0002: 14, H0638: 13, H0580: 11, H0641: 10, L0755: 10, L0599: 10, H0250: 9, H0271: 8, H0622: 8, H0575: 7, S0426: 7, L0775: 7, L0776: 7, L0751: 7, L0754: 7, H0125: 6, S0376: 6, S0132: 6, H0069: 6, H0090: 6, S0360: 5, H0486: 5, S0022: 5, L0731: 5, H0584: 4, H0657: 4, S0354: 4, S0358: 4, S0140: 4, H0581: 4, H0674: 4, L0764: 4, L0657: 4, L0665: 4, S0052: 4, S0428: 4, L0749: 4, L0752: 4, H0445: 4, L0591: 4, H0656: 3, L0785: 3, H0663: 3, H0370: 3, H0042: 3, H0004: 3, H0318: 3, H0031: 3, H0059: 3, L0769: 3,		
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					L0372: 3, L0646: 3, L0806: 3, L0659: 3, L0666: 3, S0126: 3, H0658: 3, H0518: 3, H0555: 3, L0750: 3, H0255: 2, H0662: 2, H0637: 2, H0431: 2, H0574: 2, H0632: 2, H0545: 2, H0083: 2, S0214: 2, H0644: 2, H0032: 2, H0634: 2, S0440: 2, H0652: 2, L0770: 2, L0637: 2, L0771: 2, L0653: 2, L0783: 2, L0664: 2, H0660: 2, H0134: 2, H0187: 2, S3014: 2, L0748: 2, L0777: 2, L0758: 2, S0434: 2, L0595: 2, L0601: 2, H0167: 1, H0159: 1, S0342: 1, S0114: 1, S0134: 1, H0650: 1, H0661: 1, H0664: 1, H0306: 1, H0402: 1, H0192: 1, S0418: 1, H0645: 1, H0393: 1, H0537: 1, T0104: 1, H0586: 1, H0497: 1, H0331: 1, H0101: 1,		
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	H0635: 1, H0427: 1, H0309: 1, H0231: 1, H0544: 1, H0546: 1, H0046: 1, H0012: 1, H0620: 1, H0024: 1, H0107: 1, H0179: 1, H0416: 1, H0188: 1, S0003: 1, H0688: 1, H0029: 1, H0553: 1, L0142: 1, H0628: 1, L0055: 1, H0383: 1, H0673: 1, H0189: 1, H0124: 1, H0068: 1, H0063: 1, H0087: 1, S0472: 1, L0369: 1, L0762: 1, L0761: 1, L0772: 1, L0773: 1, L0662: 1, L0767: 1, L0387: 1, L0766: 1, L0649: 1, L0533: 1, L0522: 1, L0774: 1, L0784: 1, L0652: 1, L0655: 1, L0379: 1, L0629: 1, L0544: 1, L0367: 1, L0368: 1, L0787: 1, L0788: 1, S0053: 1, S0216: 1, S0374: 1, S0296: 1, H0682: 1, H0684: 1, S0328: 1, S0332: 1,	
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HPDVO67	HPDVO67R	1919	1 - 465	4094	Glu-1 to Asp-6, Thr-11 to Glu-20, Val-61 to Gln-66.	H0214: 1, S0404: 1, H0576: 1, L0779: 1, L0780: 1, L0757: 1, L0593: 1, S0011: 1, H0665: 1, H0542: 1, H0423: 1 and S0458: 1.		
						AR039: 4, AR096: 4, AR052: 2, AR089: 2, AR061: 2, AR060: 2, AR104: 2, AR033: 1, AR055: 1, AR053: 0 L0666: 4, H0253: 2, H0622: 2, H0670: 2, L0743: 2, H0181: 1, L0372: 1, L0773: 1, L0767: 1, L0657: 1, L0665: 1, H0658: 1, L0751: 1, L0749: 1, L0779: 1, L0777: 1, L0758: 1 and L0593: 1.		
HPDVQ74	HPDVQ74R	1920	3 - 278	4095	Pro-1 to Ala-9, Arg-17 to Glu-25.			
HPDVQ82	HPDVQ82R	1921	29 - 421	4096		H0658: 2		
HPDVT30	HPDVT30R	1922	3 - 284	4097		L0754: 2, H0685: 1, T0010: 1, H0658: 1 and H0423: 1.		
HPDVT37	HPDVT37R	1923	1 - 333	4098				
HPDVU28	HPDVU28R	1924	91 - 693	4099	Val-1 to Glu-9, Pro-26 to Gly-31, Tyr-67 to Glu-74,			

HPDVU72	HPDVU72R	1925	3 - 548	4100	<p>Phe-107 to Glu-118, Lys-162 to Arg-173.</p> <p>Ser-1 to His-7, Thr-15 to Arg-29, His-31 to Val-42, Pro-52 to Pro-94, Glu-113 to Ala-131, Lys-161 to Arg-167.</p>	<p>L0777: 6, L0766: 5, L0749: 5, L0601: 4, L0758: 3, H0617: 2, L0769: 2, L0794: 2, L0805: 2, L0657: 2, L0665: 2, H0693: 2, S0028: 2, L0439: 2, L0751: 2, L0747: 2, L0779: 2, L0588: 2, S0114: 1, H0650: 1, H0657: 1, H0402: 1, H0638: 1, S0354: 1, S0360: 1, S0045: 1, S6026: 1, H0550: 1, H0156: 1, H0253: 1, H0421: 1, T0115: 1, H0150: 1, H0014: 1, S0051: 1, S6028: 1, H0688: 1, L0483: 1, H0181: 1, H0163: 1, H0090: 1, H0087: 1, H0560: 1, H0646: 1, S0210: 1, L0763: 1, L0638: 1, L0761: 1, L0784: 1, L0806: 1, L0776: 1, L0655: 1, L0659: 1, L0384: 1, L0789: 1, H0690: 1,</p>		
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HPDVU88	HPDVU88R	1926	3 - 191	4101	Pro-6 to Ala-16.	H0684: 1, H0658: 1, L0752: 1, L0755: 1, L0731: 1, L0757: 1, L0595: 1, S0276: 1 and H0506: 1.		
HPDVV78	HPDVV78R	1927	78 - 644	4102				
HPDWA35	HPDWA35R	1928	3 - 302	4103		H0658: 2		
HPDWA88	HPDWA88R	1929	3 - 560	4104				
HPDWB40	HPDWB40R	1930	175 - 306	4105	Arg-1 to Glu-8, Ala-31 to Trp-39.			
HPDWC30	HPDWC30R	1931	231 - 383	4106				
HPDWC75	HPDWC75R	1932	1 - 390	4107	Ala-3 to Ala-10, Pro-15 to Pro-23, Glu-79 to Ser-88, Pro-115 to Arg-122.			
HPDWD44	HPDWD44R	1933	214 - 471	4108		H0271: 13, H0436: 11, L0766: 8, H0581: 5, L0754: 5, S0242: 5, H0556: 4, H0635: 4, L0800: 4, L0662: 4, L0804: 4, L0655: 4, L0659: 4, L0789: 4, L0751: 4, L0757: 4, L0591: 4, S0356: 3, H0069: 3, H0416: 3, L0803: 3, L0747: 3, H0445: 3, H0423: 3, H0422: 3, H0395: 2.		

	S0134: 2, H0662: 2, H0402: 2, S0354: 2, S0046: 2, S0132: 2, H0587: 2, H0642: 2, H0014: 2, H0179: 2, H0644: 2, H0032: 2, H0090: 2, H0396: 2, H0633: 2, S0422: 2, L0375: 2, L0806: 2, L0607: 2, L0666: 2, L0663: 2, S0052: 2, S0053: 2, S0216: 2, H0521: 2, L0740: 2, L0779: 2, L0777: 2, L0758: 2, L0596: 2, L0599: 2, H0394: 1, S0114: 1, H0657: 1, H0656: 1, S0298: 1, H0306: 1, S0376: 1, H0411: 1, H0607: 1, H0632: 1, H0257: 1, H0492: 1, H0486: 1, L0021: 1, H0318: 1, H0196: 1, H0545: 1, H0457: 1, H0083: 1, S6028: 1, L0483: 1, H0591: 1, H0634: 1, H0623: 1, H0560: 1, H0641: 1, S0344: 1, L0770: 1, L0372: 1,						
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							L0646: 1, L0794: 1, L0774: 1, L0653: 1, L0776: 1, L0657: 1, L0783: 1, L0664: 1, L0665: 1, S0428: 1, S0374: 1, H0689: 1, H0690: 1, H0658: 1, H0672: 1, S0378: 1, H0518: 1, H0576: 1, H0478: 1, S014: 1, L0749: 1, H0543: 1 and S0458: 1.			
HPDWD67	HPDWD67R	1934	220 - 2	4109	Asp-65 to Gly-73.					
HPDWD69	HPDWD69R	1935	3 - 353	4110	Ser-1 to His-19, Val-86 to Pro-105, Pro-110 to Met-117.		L0588: 18, S0408: 16, S0007: 12, S0444: 11, H0677: 11, H0648: 10, L0769: 9, H0670: 9, S0328: 9, H0651: 8, S0406: 8, H0657: 7, H0341: 7, H0402: 7, H0659: 7, L0748: 7, H0543: 7, T0049: 6, H0251: 6, L0775: 6, L0742: 6, H0422: 6, L0471: 5, H0617: 5, S0440: 5, L0517: 5, S0374: 5, H0658: 5, H0696: 5, L0749: 5, H0423: 5, H0295: 4, S0114: 4, S0134: 4,			



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					H0581: 2, S0049: 2, H0083: 2, H0031: 2, H0163: 2, H0551: 2, H0059: 2, S0210: 2, L0762: 2, L0764: 2, L5564: 2, L0653: 2, L0655: 2, L0634: 2, L0526: 2, L0783: 2, L0543: 2, L0368: 2, H0691: 2, H0547: 2, H0690: 2, H0684: 2, S0330: 2, H0710: 2, L0754: 2, L0747: 2, L0750: 2, L0777: 2, L0755: 2, L0590: 2, L0581: 2, L0599: 2, L0608: 2, L0604: 2, L0362: 2, H0653: 2, H0721: 2, H0686: 1, S0430: 1, L0760: 1, S0116: 1, S0212: 1, H0484: 1, H0663: 1, H0306: 1, H0458: 1, H0459: 1, L0534: 1, L0005: 1, S0442: 1, S0376: 1, S0045: 1, S0132: 1, S0476: 1, H0393: 1, H0640: 1, H0411: 1, S0278: 1, H0455: 1, H0592: 1,				
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T0039: 1, T0060: 1, H0706: 1, S0010: 1, T0048: 1, H0318: 1, H0309: 1, H0596: 1, T0115: 1, L0040: 1, H0231: 1, H0546: 1, H0545: 1, H0009: 1, H0057: 1, H0018: 1, S0051: 1, H0510: 1, H0375: 1, H0109: 1, S0022: 1, H0328: 1, H0688: 1, H0039: 1, T0023: 1, T0006: 1, H0424: 1, H0628: 1, H0673: 1, H0708: 1, S0366: 1, S0036: 1, H0135: 1, H0040: 1, H0634: 1, H0063: 1, H0087: 1, H0116: 1, H0264: 1, H0413: 1, H0100: 1, L0564: 1, H0494: 1, H0561: 1, H0641: 1, H0646: 1, S0144: 1, S0344: 1, L0506: 1, L0761: 1, L0646: 1, L0771: 1, L0648: 1, L0521: 1, L0662: 1, L0387: 1, L0375: 1, L0806: 1, L0654: 1, L0661: 1,					
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									L0807: 1, L0542: 1, L0519: 1, L0530: 1, L0790: 1, L0663: 1, H0144: 1, H0724: 1, H0660: 1, H0666: 1, H0672: 1, H0518: 1, H0521: 1, S0190: 1, H0134: 1, H0187: 1, H0436: 1, S3014: 1, S0028: 1, L0751: 1, L0779: 1, L0757: 1, S0031: 1, H0445: 1, S0436: 1, H0668: 1, S0026: 1, S0276: 1 and S0424: 1.			
HPDWD81	HPDWD81R	1936	1 - 378	4111	Asn-60 to Gly-72, Pro-83 to Trp-114, Ser-117 to Arg-126.							
HPDWE11	HPDWE11R	1937	2 - 121	4112	Arg-1 to Gln-9.				H0575: 2, L0002: 1, S0336: 1, H0487: 1, L0762: 1, L0637: 1, L0805: 1, L0659: 1, H0658: 1, L0777: 1 and L0731: 1.			
HPDWE64	HPDWE64R	1938	248 - 559	4113								
HPDWF93	HPDWF93R	1939	1 - 507	4114	Pro-3 to Pro-12.							
HPDVG51	HPDVG51R	1940	169 - 342	4115	Phe-1 to Cys-13, Gly-28 to Ser-35.				H0038: 5, H0616: 3, L0752: 3, S0418: 2, H0620: 2, H0547: 2, L0602: 2, H0521: 2.			

							L0751: 2, S0212: 1, S0282: 1, H0638: 1, S0358: 1, S0007: 1, H0261: 1, H0575: 1, S0346: 1, H0596: 1, L0471: 1, L0163: 1, H0071: 1, H0510: 1, S0003: 1, H0488: 1, S0038: 1, H0509: 1, H0649: 1, S0144: 1, L0803: 1, S0374: 1, H0519: 1, S0126: 1, H0658: 1, H0518: 1, S0013: 1, S0044: 1, L0743: 1, L0744: 1, L0748: 1, L0759: 1, L0599: 1 and S0424: 1.			
HPDWL56	HPDWL56R	1941	2 - 388	4116						
HPDWL70	HPDWL70R	1942	174 - 308	4117						
HPDWN46	HPDWN46R	1943	1 - 585	4118	Arg-21 to Gly-32, Pro-63 to Ser-79, Thr-92 to Pro-100, Glu-107 to Glu-126, Glu-133 to Ser-146, Ser-148 to Thr-157.	H0556: 30, H0659: 9, L0439: 9, S0406: 8, H0494: 7, S0360: 6, L0771: 6, H0634: 5, S0206: 5, L0777: 5, H0265: 4, H0657: 4, S0328: 4, S0152: 4, S0146: 4, L0748: 4, L0751: 4, L0749: 4, H0423: 4, S0040: 3, H0497: 3, H0623: 3,				

H0529: 3, L0761: 3, L0665: 3, H0144: 3, H0555: 3, S0026: 3, H0656: 2, H0341: 2, S0212: 2, S0418: 2, S0356: 2, H0675: 2, S0046: 2, H0411: 2, H0586: 2, H0581: 2, H0615: 2, H0553: 2, H0591: 2, S0440: 2, S0422: 2, L0772: 2, L0438: 2, H0711: 2, H0521: 2, S0404: 2, S3014: 2, L0743: 2, L0740: 2, H0170: 1, H0171: 1, H0159: 1, H0686: 1, S0342: 1, H0294: 1, S0114: 1, T0049: 1, S0116: 1, H0661: 1, H0458: 1, S0420: 1, S0376: 1, S0444: 1, H0437: 1, S6022: 1, H0550: 1, H0362: 1, H0642: 1, H0574: 1, H0559: 1, S0280: 1, H0590: 1, H0004: 1, H0363: 1, H0263: 1, H0596: 1, H0081: 1, H0014: 1, H0688: 1, H0628: 1,					
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							L0055: 1, H0673: 1, H0068: 1, H0551: 1, T0069: 1, L0435: 1, H0625: 1, S0002: 1, L0369: 1, L0637: 1, L0764: 1, L0774: 1, L0775: 1, L0375: 1, L0378: 1, L0806: 1, L0805: 1, L0655: 1, L0606: 1, L0657: 1, L0783: 1, L0382: 1, L0792: 1, H0701: 1, S0374: 1, H0519: 1, S0126: 1, H0658: 1, H0670: 1, H0648: 1, S0390: 1, S0037: 1, L0744: 1, L0747: 1, L0779: 1, L0731: 1, L0759: 1, H0445: 1, S0434: 1, L0584: 1, H0667: 1, S0194: 1, H0542: 1, H0543: 1, H0422: 1 and S0424: 1.			
HPDWN65	HPDWN65R	1944	1 - 246	4119						
HPDWN69	HPDWN69R	1945	2 - 607	4120	Gly-2 to Pro-9, Ser-24 to Thr-33.					
HPDWO08	HPDWO08R	1946	351 - 704	4121		L0766: 5, H0551: 3, L0769: 3, L0639: 3, H0327: 2, S0002: 2, L0764: 2, L0659: 2,				

							L0663: 2, L0777: 2, S0356: 1, S0360: 1, S0410: 1, L0717: 1, H0261: 1, H0550: 1, S0222: 1, T0109: 1, H0575: 1, T0048: 1, H0052: 1, S0051: 1, L0455: 1, H0124: 1, H0135: 1, H0063: 1, H0087: 1, L0763: 1, L0770: 1, L0796: 1, L0761: 1, L0643: 1, L0374: 1, L0771: 1, L0626: 1, L0635: 1, L0542: 1, L0809: 1, L0665: 1, L0565: 1, H0547: 1, H0658: 1, H0522: 1, L0756: 1, L0758: 1 and L0366: 1.			
HPDWO29	HPDWO29R	1947	386 - 568	4122	His-1 to Gly-13.					
HPDWO50	HPDWO50R	1948	27 - 455	4123	Arg-90 to Lys-95, Pro-121 to Trp-129.					
HPDWO61	HPDWO61R	1949	2 - 358	4124						
HPDWO82	HPDWO82R	1950	1 - 342	4125	Ala-3 to Glu-8.					L0770: 12, H0657: 10, H0659: 9, L0776: 8, H0648: 8, L0755: 8, L0774: 7, S0410: 6, H0494: 6, L0769: 6, L0750: 6, S0408: 5, S0440: 5, L0775: 5,



		S0376: 4, S0360: 4, L0748: 4, L0777: 4, L0752: 4, L0759: 4, H0341: 3, S0358: 3, H0616: 3, L0766: 3, L0740: 3, L0747: 3, L0731: 3, L0758: 3, S0026: 3, H0170: 2, H0556: 2, H0685: 2, H0656: 2, S0420: 2, S0444: 2, T0109: 2, H0156: 2, H0545: 2, L0471: 2, H0031: 2, H0040: 2, H0560: 2, L0065: 2, S0438: 2, L0763: 2, L0772: 2, L0764: 2, L0518: 2, L0783: 2, H0144: 2, S0374: 2, H0520: 2, H0658: 2, H0670: 2, L0753: 2, H0445: 2, S0434: 2, H0665: 2, S0194: 2, S0134: 1, S0116: 1, H0663: 1, L0481: 1, H0638: 1, H0125: 1, S0442: 1, H0351: 1, H0369: 1, H0550: 1, H0431: 1, H0331: 1, H0069: 1, S0346: 1, T0048: 1,		
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HPDWS61	HPDWS61R	1951	73 - 321	4126	Asp-15 to Val-20.	S0182: 1, S0049: 1, H0563: 1, H0081: 1, H0620: 1, H0014: 1, H0373: 1, H0083: 1, H0375: 1, H0428: 1, H0708: 1, H0634: 1, H0412: 1, H0413: 1, L0475: 1, H0386: 1, L0598: 1, H0529: 1, L0520: 1, L0762: 1, L0371: 1, L0638: 1, L0373: 1, L0646: 1, L0773: 1, L0521: 1, L0662: 1, L0805: 1, L0655: 1, L0517: 1, L0540: 1, L0542: 1, L0526: 1, L0809: 1, L0545: 1, L0791: 1, L0663: 1, L0665: 1, H0691: 1, H0547: 1, H0690: 1, H0435: 1, H0660: 1, H0651: 1, S0380: 1, S0406: 1, L0749: 1, L0780: 1, H0668: 1, H0653: 1, S0242: 1, S0276: 1, H0542: 1, H0422: 1 and H0506: 1.		
HPDWS61	HPDWS61R	1951	73 - 321	4126	Asp-15 to Val-20.	H0617: 8, S0404: 8, H0484: 7, H0550: 7,		

L0758: 5, H0606: 4, H0658: 4, H0696: 4, S0276: 4, H0295: 3, S0280: 3, H0150: 3, H0188: 3, H0163: 3, L0769: 3, S0408: 2, L0622: 2, L0623: 2, T0060: 2, T0006: 2, H0181: 2, H0673: 2, H0494: 2, L0764: 2, L0775: 2, L0776: 2, L0514: 2, L0510: 2, L0511: 2, L0512: 2, L0540: 2, L0783: 2, L0809: 2, L0528: 2, H0683: 2, H0694: 2, L0744: 2, L0747: 2, S0031: 2, S6024: 1, H0294: 1, H0381: 1, H0483: 1, H0664: 1, H0662: 1, S0356: 1, S0442: 1, S0358: 1, S0376: 1, H0411: 1, S6022: 1, H0586: 1, H0333: 1, H0036: 1, H0590: 1, H0309: 1, H0044: 1, H0121: 1, H0081: 1, H0014: 1, S0388: 1, S0051: 1, H0252: 1, H0622: 1,						
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HPDWT55	HPDWT55R	1952	3 - 503	4127	Ala-37 to Ser-42, Gly-127 to Thr-134.	L0483: 1, H0033: 1, H0111: 1, H0032: 1, H0166: 1, S0438: 1, L0762: 1, L0504: 1, L0381: 1, L0803: 1, L0375: 1, L0376: 1, L0509: 1, L0515: 1, L0518: 1, L0782: 1, L0544: 1, L0541: 1, L0543: 1, H0693: 1, S0126: 1, H0651: 1, L0743: 1, L0751: 1, L0777: 1, L0753: 1, H0445: 1, H0667: 1, S0194: 1 and S0398: 1.		
HPDWT56	HPDWT56R	1953	12 - 746	4128	Arg-4 to Gly-17, Pro-39 to Lys-46, His-96 to Arg-102.	L0774: 3, H0658: 3, L0803: 2, L0439: 2, H0619: 1, H0586: 1, H0309: 1, S0366: 1, L0659: 1 and S0052: 1.		
HPDWU47	HPDWU47R	1954	1 - 705	4129				
HPDWU55	HPDWU55R	1955	1 - 702	4130	Leu-4 to Phe-9, Gly-29 to Glu-39.	L0748: 18, L0755: 7, H0251: 6, L0777: 6, H0658: 4, L0754: 4, L0779: 4, S0360: 3, S0276: 3, H0674: 2, L0767: 2, L0766: 2,		

							L0775: 2, L0809: 2, H0689: 2, L0757: 2, S0358: 1, S0046: 1, H0013: 1, H0427: 1, H0546: 1, H0046: 1, H0123: 1, H0252: 1, H0031: 1, H0617: 1, L0769: 1, L0773: 1, L0662: 1, L0649: 1, L0774: 1, L0375: 1, L0776: 1, L0636: 1, L0783: 1, L0382: 1, L0666: 1, L0663: 1, L0665: 1, H0144: 1, H0670: 1, S0328: 1, H0696: 1, S0027: 1, L0758: 1, L0759: 1 and S0434: 1.		
HPDWU60	HPDWU60R	1956	2 - 568	4131	Pro-50 to Trp-55:	L0766: 7, L0748: 6, L0771: 5, S0422: 3, H0519: 3, L0749: 3, L0756: 3, H0735: 2, H0641: 2, H0529: 2, L0659: 2, S0374: 2, L0758: 2, H0484: 1, S0442: 1, S0358: 1, S0410: 1, S0007: 1, H0632: 1, L0483: 1, H0606: 1, H0268: 1, S0150: 1, L0763: 1,			

							L0637: 1, L0764: 1, L0768: 1, L0774: 1, L0653: 1, L0809: 1, L0666: 1, H0144: 1, L0438: 1, H0520: 1, H0547: 1, H0658: 1, S0328: 1, H0539: 1, S0406: 1, S0027: 1, L0744: 1, L0751: 1, L0754: 1, L0750: 1, L0777: 1, L0592: 1, L0608: 1, L0593: 1, H0543: 1 and H0422: 1.			
HPDWU63	HPDWU63R	1957	2 - 370	4132	Ala-51 to Tyr-56, Ala-92 to Ser-101, Ser-118 to Ile-123.					
HPFMP90	HPFMP90R	1958	38 - 163	4133	Asp-14 to Ala-19.					
							L0740: 3, L0758: 3, S0242: 3, L0598: 2, L0766: 2, L0803: 2, H0435: 2, H0648: 2, L0748: 2, L0756: 2, L0731: 2, L0757: 2, H0170: 1, S0300: 1, H0431: 1, H0046: 1, H0687: 1, S0003: 1, H0674: 1, H0616: 1, T0067: 1, UNKWN: 1, L0770: 1, L0637: 1, L0373: 1, L0765: 1, L0794: 1, L0804: 1,			

							L0775: 1, L0784: 1, L0805: 1, L0776: 1, L0666: 1, L0664: 1, L0665: 1, L0438: 1, H0689: 1, L0439: 1, L0754: 1, L0750: 1, L0759: 1 and L0480: 1.			
HPIAL09	HPIAL09R	1959	209 - 394	4134	Phe-5 to Leu-11, Ser-20 to Arg-45.					
HSAMY44	HSAMY44R	1960	3 - 182	4135	Gly-4 to Asn-9.					
HSAYW59	HSAYW59R	1961	2 - 364	4136	Pro-11 to Lys-16, Val-18 to Arg-45, Asn-56 to Glu-67.		H0255: 2, S0114: 1, L0510: 1 and S0216: 1.			
HSCPJ17	HSCPJ17R	1962	2 - 655	4137						
HSDIA22	HSDIA22R	1963	114 - 212	4138						
HSDII65	HSDII65R	1964	239 - 412	4139			L0809: 5, L0666: 4, L0747: 3, L0750: 3, L0764: 2, L0803: 2, L0774: 2, L0651: 2, L0663: 2, L0664: 2, L0748: 2, L0756: 2, L0779: 2, L0755: 2, H0669: 1, H0392: 1, H0600: 1, S0346: 1, H0494: 1, H0646: 1, L0763: 1, L0371: 1, L0372: 1, L0775: 1, L0659: 1, L0518: 1, L0788: 1, L0665: 1, S0330: 1, S0392: 1,			

							L0749: 1, L0752: 1, L0757: 1, S0260: 1, L0596: 1, L0591: 1 and L0608: 1.			
HSDIX73	HSDIX73R	1965	2 - 187	4140						
HSDJI25	HSDJI25R	1966	2 - 169	4141	Ser-20 to Ser-31.					
HSDZE12	HSDZE12R	1967	40 - 141	4142	Trp-1 to Ala-10.		AR033: 4, AR089: 3, AR096: 3, AR060: 3, AR061: 2, AR053: 2, AR055: 1, AR039: 0, AR052: 0 L0774: 3, L0752: 3, L0592: 3, H0625: 2, L0662: 2, L0747: 2, L0777: 2, H0580: 1, L0717: 1, H0455: 1, S0280: 1, H0251: 1, H0633: 1, L0773: 1, L0768: 1, L0794: 1, L0803: 1, L0775: 1, L0653: 1, L0776: 1, L0661: 1, L0659: 1, L0526: 1, L0809: 1, L0665: 1, H0658: 1, H0696: 1, L0755: 1, L0731: 1, L0757: 1, L0759: 1 and H0352: 1.			
HSDZJ21	HSDZJ21R	1968	40 - 180	4143	Lys-18 to Lys-30.					
HSIFF84	HSIFF84R	1969	3 - 80	4144	Pro-14 to Lys-26.					
HSKJR50	HSKJR50R	1970	2 - 400	4145	Leu-117 to Trp-123.					



HSLHT27	HSLHT27R	1971	2 - 196	4146	Asn-45 to Ser-54.	H0596: 5, S0388: 4, H0598: 4, H0595: 4, S0412: 4, S0282: 3, S0280: 2, H0594: 2, H0366: 2, H0542: 2, H0395: 1, H0589: 1, S0356: 1, H0411: 1, H0592: 1, H0559: 1, H0427: 1, S0050: 1, H0373: 1, S0344: 1, H0436: 1, S0260: 1, S0194: 1 and H0506: 1.		
HSODB16	HSODB16R	1972	1 - 174	4147				
HSPSB24	HSPSB24R	1973	1 - 612	4148	Glu-77 to Arg-82, Pro-132 to Met-139.			
HSPSB70	HSPSB70R	1974	3 - 539	4149	Ile-1 to Ala-11, Asp-67 to Leu-78, Asn-81 to Ser-90, Pro-96 to Glu-110, Ala-164 to Ala-171, Gln-173 to Lys-179.			
HSPSB74	HSPSB74R	1975	1 - 162	4150	Ala-1 to Cys-21, Trp-23 to Ser-33.			
HSPSB80	HSPSB80R	1976	2 - 631	4151				
HSPSC30	HSPSC30R	1977	1 - 342	4152	Leu-43 to Thr-58.			
HSPSE86	HSPSE86R	1978	3 - 293	4153	Ser-41 to Ile-50, Gln-55 to Glu-65, Cys-69 to Asp-78.	L0755: 5, L0748: 4, H0616: 3, L0769: 3, L0752: 3, L0731: 3, L0757: 3, S0356: 2, S0408: 2, S0046: 2,		

L0770: 2, L0771: 2, L0776: 2, L0526: 2, L0747: 2, L0750: 2, L0756: 2, L0758: 2, L0759: 2, L0588: 2, H0170: 1, L0459: 1, H0484: 1, S0358: 1, S0360: 1, H0637: 1, S0045: 1, S0132: 1, H0393: 1, S0278: 1, T0039: 1, H0427: 1, H0318: 1, S0049: 1, H0009: 1, H0081: 1, T0003: 1, H0051: 1, H0083: 1, S0003: 1, H0622: 1, H0708: 1, H0316: 1, H0038: 1, H0063: 1, H0412: 1, S0038: 1, S0150: 1, H0529: 1, L0762: 1, L0763: 1, L0646: 1, L0644: 1, L0768: 1, L0766: 1, L0774: 1, L0775: 1, L0661: 1, L0657: 1, L0782: 1, L0788: 1, L0666: 1, L0665: 1, H0683: 1, H0660: 1, S0378: 1, S0406: 1, L0777: 1, H0445: 1 and H0542: 1.					
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HSPSG03	HSPSG03R	1979	3 - 191	4154	Leu-41 to Asp-48.	H0124: 19, H0052: 10, L0751: 7, L0747: 7, H0255: 6, H0441: 6, H0556: 5, S0222: 5, H0265: 4, S0360: 4, H0620: 4, L0655: 4, H0144: 4, L0439: 4, L0596: 4, L0601: 4, S0132: 3, H0575: 3, H0123: 3, H0012: 3, H0024: 3, H0617: 3, H0087: 3, H0529: 3, L0764: 3, L0662: 3, L0766: 3, L0663: 3, L0565: 3, L0438: 3, H0660: 3, L0743: 3, L0740: 3, H0445: 3, H0218: 2, H0585: 2, S0418: 2, S0444: 2, S0408: 2, H0208: 2, S0278: 2, H0261: 2, H0333: 2, H0706: 2, H0581: 2, S0049: 2, H0009: 2, L0471: 2, S0051: 2, T0010: 2, H0083: 2, H0594: 2, T0006: 2, H0628: 2, H0038: 2, S0440: 2, S0142: 2, S0344: 2, L5565: 2, L5566: 2,		
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		L0776: 2, L0657: 2, L0659: 2, L0666: 2, L0665: 2, H0683: 2, H0658: 2, H0670: 2, S0146: 2, L0748: 2, L0756: 2, L0752: 2, L0755: 2, L0731: 2, L0758: 2, L0587: 2, L0361: 2, H0624: 1, T0002: 1, H0141: 1, H0717: 1, S0402: 1, H0295: 1, S0114: 1, L0785: 1, H0341: 1, S0212: 1, S0282: 1, H0722: 1, S0007: 1, S0046: 1, S0476: 1, H0619: 1, S0300: 1, H0351: 1, H0411: 1, H0392: 1, H0574: 1, H0492: 1, L0622: 1, L0623: 1, H0244: 1, H0250: 1, H0156: 1, H0618: 1, T0048: 1, H0434: 1, H0309: 1, H0597: 1, H0231: 1, H0544: 1, H0546: 1, H0046: 1, H0150: 1, H0050: 1, S0050: 1, H0016: 1, H0373: 1, H0051: 1, H0071: 1,				
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	S6028: 1, H0271: 1, H0687: 1, S0022: 1, H0252: 1, H0615: 1, H0039: 1, H0033: 1, H0604: 1, H0424: 1, H0213: 1, L0055: 1, H0674: 1, H0068: 1, H0135: 1, H0040: 1, H0551: 1, H0412: 1, H0059: 1, H0100: 1, L0351: 1, L0435: 1, H0494: 1, S0306: 1, S0150: 1, H0647: 1, S0210: 1, S0002: 1, L0369: 1, L0762: 1, L0640: 1, L0371: 1, L0770: 1, L0769: 1, L0638: 1, L0637: 1, L5575: 1, L0772: 1, L0646: 1, L0641: 1, L0374: 1, L0648: 1, L0767: 1, L0768: 1, L0774: 1, L0653: 1, L0493: 1, L0559: 1, L0635: 1, L0783: 1, L0519: 1, L0545: 1, L0541: 1, L0543: 1, L0788: 1, L4559: 1, S0053: 1, L0352: 1, H0520: 1, H0547: 1,					
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							H0690: 1, H0682: 1, H0435: 1, H0539: 1, H0521: 1, S0404: 1, S3012: 1, S0037: 1, S3014: 1, S0028: 1, S0206: 1, L0742: 1, L0750: 1, L0779: 1, L0753: 1, L0757: 1, L0593: 1, S0276: 1, H0423: 1, H0506: 1, H0008: 1 and H0293: 1.			
HSPSG13	HSPSG13R	1980	2 - 784	4155						
HSPSG42	HSPSG42R	1981	3 - 596	4156			Glu-6 to Thr-11, His-31 to Asn-36, Thr-68 to Ile-76, Met-80 to Arg-89, Glu-123 to Gln-132, Arg-140 to Leu-147.			
HSPSG50	HSPSG50R	1982	123 - 608	4157			Glu-1 to Ile-6.			
HSPSG89	HSPSG89R	1983	94 - 651	4158			Pro-36 to Lys-44, Ile-46 to Ser-52, Val-82 to Gln-89, Gly-99 to Ala-104, Tyr-165 to Leu-171.			
HSPSH39	HSPSH39R	1984	11 - 793	4159						
HSPSH41	HSPSH41R	1985	3 - 431	4160						
HSPSH49	HSPSH49R	1986	3 - 539	4161						
HSPSI65	HSPSI65R	1987	3 - 734	4162			Asp-7 to Lys-15, His-142 to Glu-156,			

HSPSJ71	HSPSJ71R	1988	2 - 310	4163	Glu-181 to Phe-190.	H0124: 19, H0052: 10, L0751: 7, L0747: 7, H0255: 6, H0441: 6, H0556: 5, S0222: 5, H0265: 4, S0360: 4, H0620: 4, L0655: 4, H0144: 4, L0439: 4, L0596: 4, L0601: 4, S0132: 3, H0575: 3, H0123: 3, H0012: 3, H0024: 3, H0617: 3, H0087: 3, H0529: 3, L0764: 3, L0662: 3, L0766: 3, L0663: 3, L0565: 3, L0438: 3, H0660: 3, L0743: 3, L0740: 3, H0445: 3, H0218: 2, H0585: 2, S0418: 2, S0444: 2, S0408: 2, H0208: 2, S0278: 2, H0261: 2, H0333: 2, H0706: 2, H0581: 2, S0049: 2, H0009: 2, L0471: 2, S0051: 2, T0010: 2, H0083: 2, H0594: 2, T0006: 2, H0628: 2, H0038: 2, S0440: 2, S0142: 2, S0344: 2,		
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L5565: 2, L5566: 2, L0776: 2, L0657: 2, L0659: 2, L0666: 2, L0665: 2, H0683: 2, H0658: 2, H0670: 2, S0146: 2, L0748: 2, L0756: 2, L0752: 2, L0755: 2, L0731: 2, L0758: 2, L0587: 2, L0361: 2, H0624: 1, T0002: 1, H0141: 1, H0717: 1, S0402: 1, H0295: 1, S0114: 1, L0785: 1, H0341: 1, S0212: 1, S0282: 1, H0722: 1, S0007: 1, S0046: 1, S0476: 1, H0619: 1, S0300: 1, H0351: 1, H0411: 1, H0392: 1, H0574: 1, H0492: 1, L0622: 1, L0623: 1, H0244: 1, H0250: 1, H0156: 1, H0618: 1, T0048: 1, H0434: 1, H0309: 1, H0597: 1, H0231: 1, H0544: 1, H0546: 1, H0046: 1, H0150: 1, H0050: 1, S0050: 1, H0016: 1, H0373: 1,					
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	H0051: 1, H0071: 1, S6028: 1, H0271: 1, H0687: 1, S0022: 1, H0252: 1, H0615: 1, H0039: 1, H0033: 1, H0604: 1, H0424: 1, H0213: 1, L0055: 1, H0674: 1, H0068: 1, H0135: 1, H0040: 1, H0551: 1, H0412: 1, H0059: 1, H0100: 1, L0351: 1, L0435: 1, H0494: 1, S0306: 1, S0150: 1, H0647: 1, S0210: 1, S0002: 1, L0369: 1, L0762: 1, L0640: 1, L0371: 1, L0770: 1, L0769: 1, L0638: 1, L0637: 1, L5575: 1, L0772: 1, L0646: 1, L0641: 1, L0374: 1, L0648: 1, L0767: 1, L0768: 1, L0774: 1, L0653: 1, L0493: 1, L0559: 1, L0635: 1, L0783: 1, L0519: 1, L0545: 1, L0541: 1, L0543: 1, L0788: 1, L4559: 1, S0053: 1, L0352: 1,				
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HSPSJ72	HSPSJ72R	1989	1 - 444	4164					H0520: 1, H0547: 1, H0690: 1, H0682: 1, H0435: 1, H0539: 1, H0521: 1, S0404: 1, S3012: 1, S0037: 1, S3014: 1, S0028: 1, S0206: 1, L0742: 1, L0750: 1, L0779: 1, L0753: 1, L0757: 1, L0593: 1, S0276: 1, H0423: 1, H0506: 1, H0008: 1 and H0293: 1.		
									H0617: 14, L0665: 14, L0657: 11, H0682: 11, H0521: 10, S0360: 8, H0423: 7, H0657: 5, H0620: 5, H0687: 5, L0664: 5, H0547: 5, S0406: 5, S0376: 4, H0059: 4, H0641: 4, S0422: 4, L0648: 4, L0768: 4, H0658: 4, H0670: 4, H0666: 4, H0522: 4, H0584: 3, H0713: 3, H0716: 3, H0341: 3, H0638: 3, H0618: 3, H0039: 3, H0087: 3, H0509: 3, L0662: 3, L0775: 3, L0659: 3, H0689: 3,		

	H0435: 3, S0328: 3, H0445: 3, S0434: 3, L0581: 3, L0361: 3, H0585: 2, H0717: 2, T0049: 2, H0730: 2, S0476: 2, S0278: 2, H0550: 2, H0586: 2, H0559: 2, H0486: 2, H0575: 2, H0253: 2, H0581: 2, H0622: 2, H0606: 2, H0625: 2, H0649: 2, L0667: 2, L0382: 2, H0684: 2, L0743: 2, L0751: 2, L0599: 2, S0026: 2, H0543: 2, S0424: 2, H0171: 1, H0556: 1, S0040: 1, H0740: 1, H0650: 1, H0254: 1, H0255: 1, H0661: 1, H0663: 1, H0664: 1, H0125: 1, S0356: 1, S0442: 1, S0354: 1, S0358: 1, S0408: 1, H0722: 1, S0132: 1, S6026: 1, H0587: 1, L0623: 1, H0250: 1, L0021: 1, H0599: 1, T0082: 1, H0318: 1, H0327: 1, H0530: 1,				
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				H0150: 1, L0471: 1, H0012: 1, H0023: 1, H0024: 1, H0014: 1, S0388: 1, H0071: 1, H0107: 1, H0275: 1, H0354: 1, H0510: 1, H0247: 1, H0271: 1, H0286: 1, H0615: 1, H0688: 1, H0553: 1, H0181: 1, H0124: 1, H0316: 1, H0477: 1, H0100: 1, H0561: 1, S0450: 1, S0438: 1, H0529: 1, L0371: 1, L0769: 1, L5575: 1, L0761: 1, L0772: 1, L0646: 1, L0645: 1, L0766: 1, L0774: 1, L0375: 1, L0651: 1, L0523: 1, L0806: 1, L0658: 1, L0559: 1, L0783: 1, L0384: 1, L0793: 1, H0698: 1, H0726: 1, H0519: 1, H0683: 1, H0660: 1, S0330: 1, S0454: 1, H0696: 1, S0146: 1, H0576: 1, H0727: 1, H0732: 1, S0027: 1, S0031: 1, L0596: 1,				
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							H0542: 1, H0422: 1, S0456: 1 and H0352: 1.			
HSPSQ22	HSPSQ22R	1990	1 - 339	4165	Pro-6 to Gly-13, Pro-23 to Lys-32, Lys-94 to Ala-112.					
HSPSQ57	HSPSQ57R	1991	1 - 327	4166	Glu-17 to Asp-32.					
HSPSY67	HSPSY67R	1992	2 - 442	4167			H0683: 242, S0358: 3, L0745: 3, H0656: 2, H0484: 2, S0354: 2, H0370: 2, H0427: 2, T0010: 2, H0039: 2, H0521: 2, S0001: 1, H0619: 1, H0592: 1, H0042: 1, H0618: 1, H0327: 1, H0024: 1, H0266: 1, H0288: 1, H0135: 1, H0551: 1, H0623: 1, H0130: 1, S0210: 1, L0774: 1, L0654: 1, L0438: 1, H0593: 1, H0539: 1, L0439: 1, H0707: 1, H0422: 1 and H0293: 1.			
HSPSZ69	HSPSZ69R	1993	2 - 406	4168						
HSPTA57	HSPTA57R	1994	244 - 438	4169						
HSPTN57	HSPTN57R	1995	2 - 61	4170	Ala-1 to Lys-9, Val-11 to Trp-17.					
HSSDM17	HSSDM17R	1996	46 - 210	4171						
HSWBF04	HSWBF04R	1997	36 - 302	4172	Ser-1 to Thr-8,					

HSWBP42	HSWBP42R	1998	188 - 364	4173	Glu-17 to Ala-32, Arg-39 to Trp-47.			
HSXEM65	HSXEM65R	1999	84 - 308	4174	Met-9 to Arg-14, Leu-23 to Lys-29, Lys-50 to Asn-56. Ser-7 to Gly-12, Pro-23 to Pro-40, Ala-49 to Val-54.	L0803: 10, L0794: 4, L0779: 4, L0789: 2, H0648: 2, S0442: 1, S0045: 1, S0036: 1, L0520: 1, L0763: 1, L0769: 1, L0800: 1, L0644: 1, L0764: 1, L0773: 1, L0767: 1, L0804: 1, L0774: 1, L0805: 1, L0517: 1, H0659: 1, L0777: 1 and L0758: 1.		
HTGAR42	HTGAR42R	2000	136 - 297	4175	Ser-4 to Thr-10, Leu-42 to Pro-51.	H0615: 2 and S0134: 1.		
HTLCU84	HTLCU84R	2001	131 - 406	4176	Asp-55 to Val-63, Cys-80 to Arg-92.			
HTSHG06	HTSHG06R	2002	107 - 295	4177				
HTTDP76	HTTDP76R	2003	169 - 423	4178	Pro-8 to Trp-14, Arg-20 to Ser-27, Glu-52 to Glu-60.			
HUFCQ37	HUFCQ37R	2004	94 - 366	4179	Pro-26 to Gly-39, Pro-68 to Arg-75.	L0439: 15, H0052: 11, S0007: 9, L0438: 6, L0731: 6, L0779: 5, L0754: 4, H0550: 3, L0769: 3, S0126: 3.		

L0743: 3, H0194: 2, H0687: 2, H0623: 2, L0768: 2, L0776: 2, L0659: 2, L0666: 2, L0663: 2, H0689: 2, S0330: 2, L0748: 2, L0786: 2, L0777: 2, L0752: 2, L0758: 2, L0608: 2, H0352: 2, H0662: 1, S0356: 1, S0354: 1, S0444: 1, S0045: 1, S0476: 1, H0441: 1, H0431: 1, H0333: 1, H0642: 1, H0575: 1, H0590: 1, T0048: 1, H0150: 1, H0024: 1, S0050: 1, S0388: 1, H0252: 1, H0039: 1, H0135: 1, H0038: 1, H0264: 1, H0494: 1, L0770: 1, L0372: 1, L0646: 1, L0521: 1, L0794: 1, L0803: 1, L0775: 1, L0653: 1, L0657: 1, L0809: 1, L0792: 1, L0664: 1, H0144: 1, L0352: 1, H0519: 1, H0593: 1, H0658: 1, H0672: 1, H0539: 1,					
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									S0406: 1, L0751: 1, L0749: 1, L0756: 1, L0753: 1 and H0506: 1.			
HULAP70	HULAP70R	2005	2 - 349	4180				Arg-8 to Arg-28.				
HUSGA11	HUSGA11R	2006	19 - 390	4181				Arg-11 to Arg-18, Ser-42 to Arg-52, Met-62 to Pro-73, Pro-102 to Gly-115.				
HUSIL88	HUSIL88R	2007	187 - 288	4182								
HUUCH08	HUUCH08R A	2008	351 - 620	4183								
HUVFA39	HUVFA39R	2009	1 - 462	4184				Arg-2 to Gly-12, Arg-28 to Gly-41, Gly-48 to Val-68, Lys-94 to Arg-118.				
HVCAA31	HVCAA31R	2010	94 - 618	4185				Met-4 to Thr-22, Asp-45 to Gly-50, Gly-65 to Asp-70, Lys-96 to Asp-104, Ile-121 to Leu-126, Met-133 to Glu-144, Ala-149 to Asn-156.				
HVCAA37	HVCAA37R	2011	208 - 717	4186				Ile-36 to Glu-41, Glu-55 to Lys-63, Lys-68 to Gln-81, Pro-84 to Lys-90, Pro-108 to Ser-119.				
HVCAA68	HVCAA68R	2012	2 - 373	4187				Pro-22 to Pro-28, Glu-109 to Arg-118.				



HVCAA94	HVCAA94R	2013	1 - 462	4188							
HVCAB02	HVCAB02R	2014	2 - 649	4189				H0666: 696, H0660: 11, L0666: 7, H0617: 4, L0664: 4, H0549: 3, H0620: 3, H0181: 3, H0593: 3, H0684: 3, H0484: 2, H0619: 2, H0051: 2, H0606: 2, H0670: 2, L0748: 2, L0439: 2, S0040: 1, H0483: 1, H0255: 1, H0662: 1, S0007: 1, H0486: 1, H0052: 1, H0597: 1, H0046: 1, H0009: 1, H0012: 1, H0059: 1, T0041: 1, H0517: 1, L0770: 1, L0764: 1, L0803: 1, L0783: 1, L0809: 1, H0435: 1, H0658: 1, H0539: 1, H0521: 1, H0696: 1 and S0434: 1.			
HVCAB03	HVCAB03R	2015	353 - 664	4190	Arg-1 to Gln-18, Asp-52 to Leu-57, Asp-67 to Lys-74, Asp-85 to Ala-92.						
HVCAB18	HVCAB18R	2016	3 - 758	4191							
HVCAB44	HVCAB44R	2017	3 - 224	4192				L0769: 7, L0747: 7, L0777: 7, L0752: 7, L0665: 6, L0770: 5,			

				L0766: 5, L0779: 5, L0771: 4, L0666: 4, L0439: 4, L0751: 4, H0052: 3, H0135: 3, L0762: 3, L0775: 3, L0806: 3, L0809: 3, L0647: 3, S0404: 3, L0743: 3, L0749: 3, L0731: 3, S0360: 2, H0083: 2, H0412: 2, L0761: 2, L0764: 2, L0662: 2, L0653: 2, L0783: 2, L0532: 2, L0664: 2, L0748: 2, L0750: 2, L0758: 2, L0759: 2, H0543: 2, H0265: 1, S0218: 1, H0657: 1, H0254: 1, H0661: 1, H0402: 1, S0354: 1, S0046: 1, H0619: 1, S6026: 1, L0717: 1, H0409: 1, H0587: 1, H0486: 1, H0013: 1, H0069: 1, H0156: 1, H0599: 1, L0022: 1, H0575: 1, H0597: 1, H0544: 1, H0546: 1, H0150: 1, H0057: 1, H0014: 1, S0003: 1, H0252: 1,			
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HVCAE01	HVCAE01R	2023	49 - 663	4198	Tyr-44 to Asp-49, Pro-132 to Leu-139, Cys-168 to His-174.			
HVCAE15	HVCAE15R	2024	3 - 605	4199	Pro-49 to Val-58, Gln-60 to Gln-78, Arg-85 to His-99, Phe-122 to Asp-128, Arg-157 to Arg-163, Leu-178 to Thr-193.			
HVCAE22	HVCAE22R	2025	2 - 493	4200	Gly-19 to Ala-24, Asn-32 to Val-38.	S0358: 7, H0659: 7, H0542: 7, H0543: 6, L0666: 5, L0747: 5, S0418: 4, H0494: 4, L0657: 4, L0517: 4, S0374: 4, L0731: 4, L0596: 4, H0341: 3, H0385: 3, S0346: 3, H0553: 3, S0144: 3, S0210: 3, L0764: 3, L0659: 3, L0663: 3, L0664: 3, H0521: 3, L0754: 3, L0779: 3, L0752: 3, L0755: 3, H0445: 3, H0422: 3, T0049: 2, S0116: 2, S0212: 2, S0282: 2, S0376: 2, S0360: 2, S0045: 2, H0486: 2, H0250: 2, H0427: 2, H0581: 2, H0251: 2,		

			H0545: 2, H0083: 2, H0510: 2, H0412: 2, S0422: 2, L0769: 2, L0637: 2, L0646: 2, L0651: 2, H0144: 2, H0519: 2, H0660: 2, S0380: 2, L0740: 2, L0608: 2, L0603: 2, H0668: 2, H0667: 2, S0412: 2, H0265: 1, T0002: 1, S0402: 1, S6024: 1, H0657: 1, H0656: 1, H0663: 1, H0638: 1, H0580: 1, H0208: 1, S0046: 1, L0717: 1, S0278: 1, H0370: 1, H0586: 1, H0497: 1, H0574: 1, T0109: 1, H0156: 1, H0575: 1, H0590: 1, H0318: 1, S0049: 1, H0544: 1, H0572: 1, H0123: 1, L0471: 1, H0024: 1, H0373: 1, L0163: 1, S0388: 1, H0355: 1, H0375: 1, S6028: 1, H0267: 1, H0687: 1, S0312: 1, S0250: 1, S0003: 1, H0316: 1, H0598: 1,			
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						H0163: 1, H0551: 1, H0623: 1, H0059: 1, T0042: 1, H0625: 1, H0561: 1, H0509: 1, S0150: 1, H0633: 1, H0646: 1, S0426: 1, L0598: 1, H0529: 1, H0517: 1, L0761: 1, L0521: 1, L0662: 1, L0766: 1, L0775: 1, L0653: 1, L0655: 1, L0783: 1, L0382: 1, L0809: 1, L0519: 1, L0529: 1, L0792: 1, L0665: 1, H0547: 1, H0593: 1, S0126: 1, H0689: 1, H0435: 1, H0666: 1, S0328: 1, H0518: 1, H0522: 1, H0436: 1, S0037: 1, S0027: 1, S0032: 1, L0439: 1, L0756: 1, S0031: 1, L0588: 1, L0595: 1, S0026: 1 and H0136: 1.		
HVCAE56	HVCAE56R	2026	75 - 572	4201	Asn-20 to Gln-27.			
HVCAG56	HVCAG56R	2027	3 - 551	4202	Arg-92 to Arg-101, Lys-134 to Asn-140, Ser-149 to Thr-159, Gly-166 to Ile-175.			

HVCAG86	HVCAG86R	2028	150 - 509	4203	Arg-6 to Pro-21.			
HVCAH03	HVCAH03R	2029	3 - 689	4204		H0620: 16, L0747: 12, H0599: 11, L0758: 9, S0358: 8, L0751: 7, L0754: 7, L0596: 7, H0556: 6, H0393: 5, H0706: 5, H0052: 5, H0616: 5, H0529: 5, L0774: 5, L0776: 5, H0483: 4, S0442: 4, H0253: 4, H0012: 4, H0083: 4, S0150: 4, L0662: 4, H0670: 4, H0521: 4, L0748: 4, L0581: 4, H0543: 4, H0341: 3, S0376: 3, H0580: 3, S0007: 3, S0280: 3, H0036: 3, H0618: 3, H0581: 3, H0309: 3, H0510: 3, H0428: 3, H0040: 3, H0087: 3, L0764: 3, L0775: 3, L0655: 3, L0666: 3, L0663: 3, L0664: 3, H0547: 3, L0749: 3, L0750: 3, L0595: 3, H0657: 2, H0656: 2, S0116: 2, H0638: 2, S0356: 2, S0360: 2, S0046: 2,		

				H0411: 2, H0550: 2, S6014: 2, H0370: 2, H0574: 2, L0622: 2, L0623: 2, H0042: 2, S0182: 2, H0318: 2, H0085: 2, H0373: 2, H0275: 2, H0188: 2, H0030: 2, H0169: 2, H0124: 2, H0135: 2, H0038: 2, H0100: 2, T0042: 2, H0494: 2, H0625: 2, H0509: 2, H0132: 2, H0130: 2, H0538: 2, L0800: 2, L0768: 2, L0381: 2, L0784: 2, L0378: 2, L0653: 2, L0659: 2, L0809: 2, H0651: 2, H0696: 2, H0134: 2, S3014: 2, S0027: 2, L0743: 2, L0744: 2, L0740: 2, L0731: 2, S0031: 2, L0604: 2, H0423: 2, H0352: 2, H0265: 1, T0002: 1, S0134: 1, H0583: 1, H0484: 1, H0661: 1, L0005: 1, S0408: 1, S0045: 1, H0619: 1, H0645: 1, H0351: 1,		
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	H0369: 1, H0549: 1, T0104: 1, H0592: 1, H0587: 1, H0333: 1, H0643: 1, H0331: 1, H0632: 1, H0270: 1, H0101: 1, H0013: 1, H0575: 1, S0010: 1, H0196: 1, H0263: 1, T0115: 1, H0597: 1, H0530: 1, H0545: 1, H0009: 1, H0571: 1, H0081: 1, H0050: 1, H0024: 1, H0095: 1, L0163: 1, H0051: 1, S0388: 1, H0107: 1, H0375: 1, H0266: 1, S0334: 1, H0288: 1, H0286: 1, H0252: 1, H0039: 1, H0424: 1, H0213: 1, H0181: 1, H0673: 1, H0674: 1, S0364: 1, H0708: 1, S0366: 1, S0036: 1, H0591: 1, H0551: 1, H0488: 1, H0412: 1, H0413: 1, H0623: 1, T0041: 1, L0475: 1, H0560: 1, H0561: 1, S0306: 1, H0714: 1, H0641: 1, H0633: 1,	
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HVCAH17	HVCAH17R	2030	1 - 498	4205							
HVCAH56	HVCAH56R	2031	3 - 527	4206							

HVCAI08	HVCAI08R	2032	67 - 453	4207	Pro-6 to Arg-13, Met-34 to Asp-41, Lys-65 to Thr-74.	L0748: 28, L0754: 27, L0740: 15, H0056: 13, L0750: 13, S0007: 12, L0757: 12, S0126: 11, S0222: 10, L0731: 10, S0360: 9, H0144: 9, S0358: 8, H0009: 8, L0005: 7, S0010: 7, H0266: 7, L0742: 7, L0752: 7, H0547: 6, S0408: 5, S0046: 5, L0471: 5, S0003: 5, S0028: 5, L0758: 5, L0362: 5, S0026: 5, H0294: 4, H0341: 4, H0638: 4, S0045: 4, H0327: 4, H0039: 4, H0031: 4, H0413: 4, S0210: 4, L0769: 4, L0662: 4, L0775: 4, L0776: 4, L0809: 4, H0689: 4, S014: 4, S0206: 4, L0747: 4, H0445: 4, L0608: 4, H0661: 3, S0376: 3, S0278: 3, H0369: 3, H0441: 3, H0575: 3, S0049: 3, S0388: 3, S0036: 3, H0616: 3, H0100: 3, H0494: 3,		
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	S0031: 2, L0605: 2, L0592: 2, L0601: 2, L0600: 2, L0615: 1, H0265: 1, S0040: 1, S0342: 1, T0049: 1, S0134: 1, H0650: 1, H0657: 1, S0116: 1, H0663: 1, H0177: 1, H0125: 1, H0192: 1, S0348: 1, S0356: 1, S0442: 1, S0354: 1, S0444: 1, S0410: 1, T0008: 1, H0580: 1, H0208: 1, S0132: 1, S6026: 1, S0300: 1, H0549: 1, H0431: 1, H0370: 1, H0438: 1, H0574: 1, H0250: 1, H0427: 1, H0097: 1, T0082: 1, H0421: 1, L2250: 1, H0309: 1, T0110: 1, H0544: 1, H0086: 1, H0563: 1, H0014: 1, H0051: 1, H0021: 1, H0083: 1, H0594: 1, S6028: 1, H0687: 1, H0290: 1, H0286: 1, S0214: 1, H0622: 1, T0023: 1, H0111: 1, H0628: 1,				
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HVCAI24	HVCAI24R	2033	108 - 365	4208	Asn-1 to Lys-6.					
HVCAI79	HVCAI79R	2034	2 - 508	4209						
HVCAJ27	HVCAJ27R	2035	1 - 537	4210			S0408: 5, L0809: 5, L0800: 4, L0804: 4, H0647: 3, L0803: 3, L0775: 3, L0805: 3, S0126: 3, L0751: 3, S0360: 2, S0278: 2, H0409: 2, H0424: 2, H0617: 2, H0494: 2, L0783: 2, H0670: 2, L0747: 2, L0777: 2, L0731: 2, L0601: 2, H0556: 1, H0295: 1, S0116: 1, H0341: 1, S0442: 1, S0358: 1, S0376: 1, H0370: 1, H0042: 1, H0575: 1, S0049: 1, H0150: 1, H0163: 1, S0294: 1, S0438: 1, H0633: 1,			

								H0529: 1, L0769: 1, L0374: 1, L0764: 1, L0560: 1, L0774: 1, L0376: 1, L0629: 1, L0807: 1, L0657: 1, L0659: 1, L0791: 1, L0666: 1, H0682: 1, H0683: 1, H0658: 1, H0666: 1, S0328: 1, H0539: 1, H0555: 1, H0436: 1, S3012: 1, L0779: 1, L0752: 1, L0757: 1, L0758: 1, L0759: 1, H0667: 1 and H0423: 1.			
HVCAJ81	HVCAJ81R	2036	1 - 477	4211		Lys-61 to Gln-73, Gln-81 to Ser-97.					
HVCAJ95	HVCAJ95R	2037	1 - 210	4212		Arg-14 to Gly-41, Arg-47 to Glu-53, Gln-56 to Lys-70.					
HVCAK02	HVCAK02R	2038	3 - 467	4213		Glu-1 to Lys-9.					
HVCAL06	HVCAL06R	2039	3 - 383	4214							
HVCAO17	HVCAO17R	2040	1 - 516	4215				H0009: 3, H0135: 3, H0494: 3, H0265: 2, H0341: 2, H0484: 2, S0046: 2, S0222: 2, H0266: 2, S0144: 2, H0658: 2, L0742: 2, H0542: 2, H0423: 2, H0171: 1, T0002: 1,			



HVCAO63	HVCAO63R	2041	10 - 306	4216	Pro-56 to Thr-65:	H0685: 1, S0040: 1, H0295: 1, S0420: 1, S0356: 1, S0360: 1, H0392: 1, H0586: 1, T0109: 1, H0427: 1, H0599: 1, H0618: 1, H0318: 1, H0597: 1, H0544: 1, H0012: 1, H0024: 1, H0014: 1, S0022: 1, H0428: 1, H0535: 1, H0068: 1, H0090: 1, H0040: 1, H0063: 1, H0264: 1, H0413: 1, T0042: 1, H0560: 1, H0633: 1, S0142: 1, S0422: 1, H0529: 1, H0519: 1, S0126: 1, H0684: 1, H0666: 1, H0672: 1, H0134: 1, H0214: 1, H0631: 1, S0027: 1, S0028: 1, L0753: 1, L0757: 1, L0599: 1, L0608: 1, L0594: 1, S0026: 1, H0667: 1, H0136: 1, S0276: 1 and H0543: 1.		
HVCAP89	HVCAP89R	2042	3 - 407	4217				
HVCAO53	HVCAO53R	2043	28 - 480	4218	Val-105 to Ile-113.			

HVCAQ84	HVCAQ84R	2044	193 - 402	4219	Asp-128 to Phe-137, Arg-145 to Arg-151.
HVCAR87	HVCAR87R	2045	3 - 455	4220	Asp-15 to Thr-23.
HVCAS08	HVCAS08R	2046	2 - 715	4221	
HVCAS52	HVCAS52R	2047	1 - 687	4222	L0777: 12, H0341: 6, S0440: 6, S0126: 6, S0358: 5, H0250: 5, H0428: 5, H0031: 5, H0090: 5, L0747: 5, L0731: 5, H0542: 5, S0422: 4, H0547: 4, L0748: 4, L0749: 4, L0759: 4, H0624: 3, H0580: 3, H0486: 3, S0003: 3, S0214: 3, H0494: 3, L0770: 3, L0764: 3, L0758: 3, L0599: 3, S0026: 3, H0543: 3, H0170: 2, H0657: 2, H0656: 2, S0420: 2, S0442: 2, S0444: 2, S0010: 2, H0318: 2, H0581: 2, H0046: 2, H0014: 2, H0083: 2, L0483: 2, H0040: 2, H0551: 2, L0769: 2, L0773: 2, L0766: 2, L0774: 2, L0659: 2, H0144: 2,

	L0565: 2, H0659: 2, H0666: 2, H0648: 2, S0328: 2, H0525: 2, H0696: 2, H0134: 2, S0406: 2, L0756: 2, L0752: 2, L0757: 2, S0436: 2, L0595: 2, S0384: 2, H0506: 2, H0171: 1, S0040: 1, T0049: 1, H0661: 1, H0638: 1, S0418: 1, S0354: 1, S0360: 1, S0410: 1, S0007: 1, S0300: 1, S0278: 1, S6014: 1, H0431: 1, H0587: 1, H0333: 1, H0574: 1, H0270: 1, T0040: 1, L0586: 1, H0635: 1, H0156: 1, T0082: 1, H0706: 1, S0346: 1, H0421: 1, H0052: 1, H0597: 1, H0545: 1, H0242: 1, L0471: 1, H0373: 1, S0051: 1, H0375: 1, H0594: 1, H0687: 1, H0288: 1, H0328: 1, H0553: 1, L0143: 1, H0032: 1, H0598: 1, H0634: 1, H0616: 1,	
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HVCAS7	HVCAS57R	2048	114 - 257	4223					H0413: 1, H0100: 1, T0042: 1, H0560: 1, H0625: 1, H0561: 1, S0150: 1, H0633: 1, H0652: 1, L0763: 1, L0371: 1, L0638: 1, L0667: 1, L0648: 1, L0521: 1, L0662: 1, L0649: 1, L0803: 1, L0776: 1, L0783: 1, L0383: 1, L0647: 1, L0664: 1, L0665: 1, H0520: 1, H0689: 1, H0414: 1, H0658: 1, H0670: 1, H0660: 1, H0710: 1, S0152: 1, S0332: 1, S0454: 1, H0522: 1, H0704: 1, H0214: 1, S3012: 1, S3014: 1, S0027: 1, S0028: 1, S0206: 1, L0740: 1, L0750: 1, S0434: 1, L0581: 1, H0653: 1, H0667: 1, S0242: 1, S0194: 1, H0422: 1 and S0424: 1.  L0748: 6, L0439: 6, L0731: 6, H0663: 4, S0354: 4, H0038: 3, S0150: 3, L0666: 3,		
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									H0668: 1, S0276: 1 and H0422: 1.		
HVCAU64	HVCAU64R	2049	3 - 404	4224	Arg-7 to Val-15.						
HVCBD18	HVCBD18R	2050	190 - 309	4225	Val-3 to Lys-9, Leu-32 to Gln-40.						
HVCBE76	HVCBE76R	2051	3 - 431	4226							
HVCBE79	HVCBE79R	2052	3 - 524	4227							
HVCBF38	HVCBF38R	2053	3 - 251	4228							
HVCBF89	HVCBF89R	2054	2 - 361	4229					AR039: 419, AR096: 339, AR053: 225, AR052: 212, AR104: 168, AR089: 168, AR060: 114, AR033: 108, AR055: 99, AR061: 74		
HVCBG01	HVCBG01R	2055	22 - 318	4230	Lys-7 to Thr-13, Asp-24 to Thr-30, Gly-39 to Glu-52.						
HVCBQ31	HVCBQ31R	2056	2 - 448	4231							
HVCCA08	HVCCA08R	2057	2 - 298	4232							
HVCKK34	HVCKK34R	2058	34 - 699	4233							
HVCCR91	HVCCR91R	2059	1 - 156	4234							
HVCCV93	HVCCV93R	2060	203 - 469	4235	Ser-25 to Asn-31, Asp-38 to Val-48, Ser-57 to Gly-63.						
HVCDA75	HVCDA75R	2061	1 - 315	4236							
HVCDD19	HVCDD19R	2062	31 - 459	4237	Pro-1 to Ser-7, Val-22 to Asn-29.						

HVCDF50	HVCDF50R	2063	3 - 353	4238	Pro-45 to Pro-51, Arg-59 to Val-64, Val-92 to Lys-98.	H0666: 8, S0144: 6, L0747: 5, H0545: 4, L0769: 4, L0766: 4, L0731: 4, H0341: 3, L0764: 3, L0794: 3, L0750: 3, L0755: 3, L0758: 3, S0045: 2, H0257: 2, H0581: 2, H0546: 2, H0135: 2, L0803: 2, L0657: 2, L0789: 2, L0666: 2, S0044: 2, H0445: 2, L0588: 2, L0594: 2, L0601: 2, H0543: 2, S0040: 1, H0295: 1, H0583: 1, S0116: 1, S0212: 1, H0661: 1, H0664: 1, S0418: 1, S0356: 1, S0358: 1, S0360: 1, S0007: 1, S0046: 1, S0132: 1, S0278: 1, H0592: 1, H0586: 1, H0559: 1, H0575: 1, S0182: 1, H0620: 1, S0388: 1, H0083: 1, S0312: 1,
HVCDF77	HVCDF77R	2064	2 - 679	4239	Ser-56 to Phe-69, Arg-113 to Thr-123, Leu-128 to Ser-135, Lys-148 to Ala-156, Gly-166 to Ser-171, Glu-188 to Leu-194, Ala-211 to Gly-222.	

HVVAB25	HVVAB25R	2065	3 - 155	4240			H0617: 1, H0169: 1, H0708: 1, H0163: 1, H0551: 1, H0488: 1, T0069: 1, H0102: 1, H0100: 1, H0494: 1, L0475: 1, H0646: 1, S0142: 1, S0002: 1, L0762: 1, L0796: 1, L0646: 1, L0800: 1, L0645: 1, L0771: 1, L0662: 1, L0768: 1, L0386: 1, L0651: 1, L0783: 1, L0790: 1, L0791: 1, L0663: 1, H0144: 1, L0438: 1, H0519: 1, H0134: 1, S3014: 1, L0740: 1, L0779: 1, L0757: 1, S0031: 1, L0592: 1, H0665: 1, S0276: 1 and H0422: 1.		
HVVAB37	HVVAB37R	2066	74 - 619	4241					
HVVAC18	HVVAC18R	2067	56 - 238	4242					
HVVAD74	HVVAD74R	2068	403 - 570	4243			L0766: 12, S0412: 8, S0422: 4, L0756: 4, H0341: 3, H0638: 3, L0770: 3, L0666: 3, L0777: 3, S0360: 2, H0318: 2, H0327: 2,		



				L0803: 2, H0670: 2, L0740: 2, L0731: 2, S0260: 2, S0436: 2, H0170: 1, H0125: 1, S0418: 1, S0444: 1, H0489: 1, H0580: 1, H0734: 1, S0222: 1, H0587: 1, H0497: 1, H0013: 1, H0075: 1, H0427: 1, H0046: 1, H0354: 1, L0142: 1, L0055: 1, H0090: 1, H0412: 1, S0440: 1, H0647: 1, H0529: 1, L0369: 1, L0371: 1, L0772: 1, L0646: 1, L0771: 1, L0649: 1, L0381: 1, L0650: 1, L0774: 1, L0653: 1, L0655: 1, L0606: 1, L0790: 1, L0532: 1, L0663: 1, L0664: 1, S0374: 1, H0593: 1, H0711: 1, H0659: 1, H0658: 1, H0672: 1, H0521: 1, L0779: 1, L0755: 1, L0758: 1, L0759: 1, L0593: 1, S0242: 1, H0423: 1 and H0721: 1.
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HVVAE73	HVVAE73R	2069	96 - 347	4244	Glu-21 to Ile-26.			
HVVAE88	HVVAE88R	2070	157 - 381	4245	Ser-1 to Asp-9, Lys-26 to Gln-36.	H0672: 2, L0748: 2, H0156: 1 and H0494: 1.		
HVVAH91	HVVAH91R	2071	3 - 245	4246		L0747: 5, L0731: 4, L0742: 3, L0745: 3, L0769: 2, L0766: 2, L0774: 2, L0597: 2, L0604: 2, T0049: 1, S0358: 1, H0549: 1, H0486: 1, T0040: 1, S0280: 1, H0318: 1, H0263: 1, H0551: 1, H0633: 1, H0529: 1, L0640: 1, L0763: 1, L0771: 1, L0768: 1, L0388: 1, L0657: 1, L0659: 1, L0517: 1, L0666: 1, L0663: 1, H0648: 1, H0672: 1, H0521: 1, L0749: 1, L0750: 1, L0779: 1, L0780: 1 and L0592: 1.		
HVVAI03	HVVAI03R	2072	2 - 307	4247				
HVVAJ23	HVVAJ23R	2073	3 - 527	4248	Gln-33 to Ala-38, Thr-47 to Asn-64, Pro-117 to Leu-122, Thr-160 to Gly-171.			
HVVAJ28	HVVAJ28R	2074	1 - 327	4249	His-1 to Trp-6, Gly-28 to Asp-34, Arg-41 to Ala-53,			

HVVAJ47	HVVAJ47R	2075	159 - 443	4250	Arg-69 to Thr-76, Leu-97 to Glu-103.	L0659: 55, H0644: 23, L0748: 18, L0666: 17, L0747: 17, H0622: 16, S0194: 16, H0553: 15, L0662: 15, S0126: 15, L0740: 15, L0754: 14, H0031: 13, H0593: 12, L0649: 11, H0435: 11, L0757: 11, H0124: 10, S0250: 9, S0356: 8, H0672: 7, L0362: 7, L0779: 6, S0210: 5, L0771: 5, L0663: 5, L0664: 5, H0547: 5, L0750: 5, L0601: 5, S0360: 4, H0619: 4, L0764: 4, L0804: 4, L0775: 4, S0358: 3, H0486: 3, H0628: 3, H0264: 3, L0451: 3, L0776: 3, L0655: 3, L0783: 3, H0693: 3, H0660: 3, S0454: 3, L0749: 3, L0605: 3, S0192: 3, H0170: 2, H0294: 2, S0180: 2, H0586: 2, H0013: 2, H0687: 2, H0428: 2,		
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				L0483: 2, H0488: 2, S0450: 2, H0647: 2, S0208: 2, L0648: 2, L0523: 2, L0809: 2, L0665: 2, H0144: 2, L0565: 2, H0690: 2, H0518: 2, H0696: 2, S3012: 2, L0752: 2, L0755: 2, L0731: 2, H0665: 2, H0171: 1, H0656: 1, S0212: 1, S0376: 1, S0410: 1, S0132: 1, H0393: 1, L0717: 1, H0392: 1, H0331: 1, H0485: 1, T0040: 1, T0060: 1, L0021: 1, H0599: 1, T0082: 1, H0618: 1, H0052: 1, H0085: 1, T0110: 1, H0046: 1, H0050: 1, L0471: 1, H0355: 1, S0003: 1, H0615: 1, H0039: 1, L0143: 1, H0111: 1, L0455: 1, S0366: 1, H0135: 1, H0040: 1, H0551: 1, H0100: 1, L0564: 1, H0509: 1, H0517: 1, L0763: 1, L0769: 1, L0772: 1,	
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HVVAK42	HVVAK42R	2076	121 - 312	4251				L0646: 1, L0768: 1, L0375: 1, L0784: 1, L0806: 1, L0805: 1, L0653: 1, L0654: 1, L0517: 1, L0384: 1, L0383: 1, L0647: 1, L0789: 1, L0791: 1, L0438: 1, H0520: 1, H0689: 1, H0682: 1, H0684: 1, S0152: 1, H0704: 1, H0555: 1, S0432: 1, S3014: 1, S0027: 1, S0028: 1, L0744: 1, L0758: 1, H0595: 1, H0707: 1, S0436: 1, L0591: 1, L0599: 1, S0196: 1, H0422: 1, S0384: 1 and L0600: 1.		
HVVAK46	HVVAK46R	2077	3 - 782	4252	Lys-1 to Lys-14, Phe-21 to Trp-26, Val-87 to Cys-92, Thr-139 to Gln-153, Gln-156 to Lys-162, Glu-171 to Leu-177.					
HVVAK68	HVVAK68R	2078	372 - 584	4253				L0747: 22, L0599: 11, L0766: 9, L0748: 9, L0483: 8, L0740: 7, L0665: 5, L0754: 5,		

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							H0014: 1, S0051: 1, H0071: 1, H0083: 1, H0687: 1, S0003: 1, S0214: 1, H0688: 1, H0031: 1, H0163: 1, H0038: 1, H0040: 1, H0616: 1, H0063: 1, H0059: 1, T0069: 1, L0475: 1, S0015: 1, H0633: 1, H0538: 1, L0769: 1, L0796: 1, L0637: 1, L0373: 1, L0521: 1, L0375: 1, L0806: 1, L0661: 1, L0527: 1, L0656: 1, L0809: 1, L0647: 1, L0664: 1, H0519: 1, H0682: 1, H0435: 1, H0659: 1, H0670: 1, H0672: 1, S0330: 1, H0521: 1, H0696: 1, H0134: 1, H0214: 1, H0555: 1, L0746: 1, L0750: 1, L0752: 1, L0759: 1, H0343: 1, L0589: 1, L0590: 1, S0194: 1, H0543: 1, S0452: 1 and H0506: 1.		
HVVAK85	HVVAK85R	2079	2 - 373	4254					
HVVAL81	HVVAL81R	2080	97 - 408	4255	Gly-72 to Asp-81.	AR089: 67, AR104: 8,			

						AR096: 5, AR060: 4, AR055: 4, AR061: 3 H0169: 21, H0674: 19, L0754: 19, H0309: 15, T0060: 7, H0038: 7, H0509: 7, S0044: 7, S0358: 6, H0124: 6, H0163: 6, H0672: 6, L0731: 6, L0750: 5, L0603: 5, H0032: 4, H0616: 4, S0330: 4, L0749: 4, L0755: 4, H0597: 3, S0318: 3, H0622: 3, L0540: 3, S0328: 3, S0406: 3, L0758: 3, S0444: 2, H0486: 2, H0122: 2, H0355: 2, S0316: 2, L0770: 2, L0646: 2, L0771: 2, L0662: 2, L0364: 2, L0803: 2, L0783: 2, H0696: 2, L0743: 2, L0747: 2, L0581: 2, H0506: 2, S0356: 1, S0376: 1, H0675: 1, H0643: 1, H0706: 1, H0253: 1, H0085: 1, H0204: 1, H0510: 1, S0314: 1, H0553: 1, H0673: 1,
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							S0366: 1, H0380: 1, T0004: 1, S0438: 1, L0372: 1, L0773: 1, L0767: 1, L0806: 1, L0542: 1, L0809: 1, L0519: 1, L0529: 1, H0691: 1, S0148: 1, H0660: 1, S0004: 1, S0146: 1, L0780: 1, S0194: 1 and S0276: 1.			
HVVAP65	HVVAP65RP 00B	2081	124 - 354	4256	Arg-1 to Cys-10, Asn-29 to Phe-38.					
HVVAS27	HVVAS27RP 00B	2082	3 - 413	4257						
HVVAW26	HVVAW26R	2083	1 - 324	4258	Lys-62 to Tyr-73.					
HVVBD91	HVVBD91RP 00B	2084	2 - 436	4259						
HVVBF09	HVVBF09R	2085	3 - 236	4260	Leu-36 to Ser-43, Gly-68 to Phe-73.					
HVVBF66	HVVBF66R	2086	7 - 171	4261	Lys-17 to Tyr-22.					
							H0672: 2, S0007: 1, L0717: 1, H0545: 1, L0764: 1, L0649: 1, L0659: 1, L0809: 1, L0438: 1, H0555: 1, L0748: 1, L0754: 1 and L0752: 1.			
HVVBH88	HVVBH88R	2087	1 - 189	4262			L0659: 14, L0740: 11, H0052: 8, L0662: 8, L0666: 8, H0059: 7, H0265: 6, H0040: 6,			

L0596: 6, S0356: 5, S0358: 5, H0539: 5, L0751: 5, L0750: 5, H0431: 4, L0759: 4, H0442: 3, H0575: 3, H0051: 3, T0010: 3, H0428: 3, H0031: 3, H0135: 3, H0433: 3, H0412: 3, H0509: 3, L0637: 3, L0372: 3, L0521: 3, L0806: 3, L0519: 3, L0663: 3, L0664: 3, L0665: 3, S0378: 3, L0591: 3, L0593: 3, H0483: 2, S0360: 2, H0587: 2, H0013: 2, H0036: 2, S0010: 2, S0049: 2, H0194: 2, T0110: 2, H0046: 2, H0123: 2, H0024: 2, H0083: 2, H0179: 2, T0006: 2, H0038: 2, H0538: 2, S0002: 2, L0769: 2, L0796: 2, L0646: 2, L0374: 2, L0648: 2, L0776: 2, H0520: 2, H0519: 2, H0689: 2, H0555: 2, S0028: 2, L0439: 2, L0752: 2,					
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L0755: 2, L0366: 2, H0542: 2, H0556: 1, S0040: 1, S0114: 1, T0049: 1, S0212: 1, H0638: 1, H0125: 1, S0420: 1, S0354: 1, S0376: 1, H0675: 1, H0489: 1, S0468: 1, S0132: 1, S0005: 1, H0492: 1, T0109: 1, S0346: 1, H0505: 1, H0318: 1, H0581: 1, H0196: 1, H0309: 1, H0263: 1, H0545: 1, H0050: 1, L0471: 1, H0012: 1, H0620: 1, H0014: 1, S0051: 1, H0510: 1, H0266: 1, H0188: 1, S0214: 1, H0252: 1, H0039: 1, H0622: 1, H0424: 1, H0030: 1, H0553: 1, H0644: 1, H0316: 1, S0036: 1, H0634: 1, H0087: 1, H0551: 1, L0564: 1, T0041: 1, T0042: 1, L0475: 1, H0130: 1, S0144: 1, S0142: 1, S0344: 1, S0210: 1, L0638: 1,					
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									L0761: 1, L0803: 1, L0653: 1, L0661: 1, L0527: 1, L0636: 1, L0783: 1, L0809: 1, T0068: 1, L0438: 1, S0126: 1, H0690: 1, H0682: 1, H0435: 1, H0658: 1, H0670: 1, H0660: 1, H0672: 1, H0651: 1, S0380: 1, H0522: 1, S0044: 1, H0478: 1, H0479: 1, S0027: 1, L0742: 1, L0748: 1, L0747: 1, L0756: 1, L0757: 1, L0758: 1, H0444: 1, H0445: 1, L0597: 1, L0581: 1, L0603: 1, S0011: 1, S0194: 1, S0196: 1, S0042: 1, L0697: 1 and H0506: 1.				
HVVB16	HVVB116R	2088	2 - 592	4263									
HVVB108	HVVB108R	2089	150 - 578	4264	Gln-5 to Pro-13, Pro-25 to Lys-32, Asp-62 to Ser-72, Gln-78 to Ser-85, Pro-91 to Glu-105.								
HVVB155	HVVB155RP 00B	2090	3 - 413	4265									
HVVBK13	HVVBK13R	2091	1 - 633	4266									

HVVBO65	HVVBO65R	2092	3 - 644	4267	Pro-62 to Pro-73, Thr-80 to Ser-92, Gln-108 to Tyr-116.			
HVVBO88	HVVBO88R	2093	50 - 433	4268				
HVVBR70	HVVBR70RP 00B	2094	2 - 406	4269				
HVVBT33	HVVBT33R	2095	116 - 316	4270	Asn-15 to Leu-27, Lys-48 to Val-53.			
HVVBT60	HVVBT60R	2096	454 - 2	4271				
HVVBY87	HVVBY87R	2097	3 - 161	4272				
HVVCB04	HVVCB04R	2098	2 - 580	4273	Pro-1 to Phe-9, Ser-111 to Asn-117, Ser-159 to Pro-167.			
HVVCB08	HVVCB08R	2099	1 - 792	4274	Ser-56 to Tyr-62, Gln-67 to Pro-74, Thr-83 to Gly-94, Gln-120 to Gln-130, Pro-150 to Ser-157.			
HVVCC06	HVVCC06R	2100	299 - 427	4275				
HVVCD65	HVVCD65R	2101	224 - 481	4276	Lys-40 to Gly-47.			
HVVCD81	HVVCD81R	2102	2 - 640	4277				
HVVCD87	HVVCD87R	2103	447 - 695	4278		L0439: 23, L0438: 20, H0556: 10, L0665: 10, S0358: 9, L0731: 8, H0423: 8, H0069: 7, H0622: 7, L0666: 7, L0748: 7, L0747: 7, H0486: 6, H0090: 6, L0664: 6, H0519: 6,		

						H0539: 6, L0749: 6, L0596: 6, S0222: 5, H0457: 5, H0435: 5, L0756: 5, L0758: 5, L0601: 5, H0013: 4, H0046: 4, H0150: 4, H0266: 4, H0038: 4, L0771: 4, L0662: 4, L0659: 4, L0663: 4, H0670: 4, H0672: 4, H0521: 4, S0404: 4, L0745: 4, H0265: 3, S0114: 3, H0650: 3, H0662: 3, S0360: 3, S0045: 3, H0333: 3, H0156: 3, H0318: 3, H0050: 3, H0620: 3, T0010: 3, H0375: 3, H0428: 3, H0039: 3, H0591: 3, H0040: 3, H0063: 3, H0412: 3, H0100: 3, H0529: 3, L0770: 3, L0775: 3, L0809: 3, H0547: 3, S0126: 3, H0436: 3, L0741: 3, L0752: 3, S0026: 3, H0624: 2, H0713: 2, H0583: 2, S0116: 2, H0663: 2, H0305: 2, H0638: 2,
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HVVC90	HVVC90R	2104	47 - 754	4279						
HVVC63	HVVC63R	2105	338 - 778	4280						
HVVC65	HVVC65R	2106	2 - 214	4281						
HVVC38	HVVC38R	2107	3 - 497	4282						
HVVC29	HVVC29R	2108	1 - 441	4283			H0135: 2, S0046: 1, S0222: 1, H0052: 1, H0672: 1, S0328: 1 and H0214: 1.			
HVVC31	HVVC31R	2109	2 - 415	4284						
HVVC46	HVVC46R	2110	3 - 350	4285	Gly-16 to Lys-22, Trp-82 to Lys-87.					

HVVC93	HVVC93R	2111	1 - 405	4286	Arg-48 to Asn-57, Lys-77 to Glu-83, Phe-106 to Asp-112.	AR089: 107, AR096: 52, AR104: 30, AR060: 27, AR061: 14, AR055: 13		
HVCH28	HVCH28R	2112	3 - 350	4287	Glu-81 to Gly-91, Arg-107 to Asn-116.			
HVCI28	HVCI28R	2113	3 - 119	4288	Asp-10 to Lys-15, Lys-29 to Asp-34.			
HVCI50	HVCI50R	2114	44 - 460	4289				
HVCI85	HVCI85R	2115	3 - 647	4290	Asp-1 to Thr-14, Ala-76 to Thr-88, Asp-101 to Lys-115, Ala-128 to Gln-136, Pro-141 to Gln-151.			
HVCI51	HVCI51R	2116	1 - 351	4291		H0585: 4, H0457: 4, L0809: 4, L0747: 4, S0442: 3, H0492: 3, H0427: 3, H0318: 3, L0666: 3, H0690: 3, H0686: 2, H0662: 2, S0358: 2, S0408: 2, H0150: 2, H0135: 2, H0063: 2, H0494: 2, L0761: 2, L0764: 2, L0773: 2, L0662: 2, L0378: 2, L0665: 2, H0670: 2, S0406: 2, L0744: 2, L0749: 2, L0601: 2, H0170: 1,		

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HVVCK59	HVVCK59R	2117	1 - 147	4292			L0751: 3, L0757: 3, L0662: 2, H0686: 1, H0266: 1, L0055: 1, L0763: 1, L0764: 1, L0768: 1, L0805: 1, L0653: 1, L0666: 1, H0690: 1, H0672: 1, L0777: 1, L0758: 1 and S0276: 1.		
HVVCK78	HVVCK78R	2118	3 - 320	4293					
HVVCL52	HVVCL52R	2119	1 - 339	4294		Pro-11 to Lys-31, Ser-36 to Gln-44, Thr-53 to Gly-58, Ala-74 to Arg-87, Pro-105 to His-113.			
HVVCL73	HVVCL73R	2120	2 - 775	4295		Gly-8 to Lys-22, Phe-29 to Trp-34, Val-95 to Cys-100, Thr-147 to Gln-161, Gln-164 to Lys-170, Glu-179 to Leu-185, Pro-194 to Gly-199.			
HVVCM67	HVVCM67R	2121	3 - 293	4296		Trp-36 to Thr-43, Gly-51 to Thr-70, Tyr-87 to Glu-97.			
HVVCM84	HVVCM84R	2122	3 - 347	4297					
HVVCN20	HVVCN20R	2123	35 - 466	4298					
HVVCN29	HVVCN29R	2124	96 - 332	4299			H0521: 182, H0522: 34, S0002: 30, S0278: 27, H0638: 23, S0344:		

					I3, S0144: 11, S0142: 9, H0580: 8, L0740: 6, L0747: 6, H0445: 6, H0090: 5, L0756: 5, L0777: 5, S0360: 4, H0591: 4, S0426: 4, L0771: 4, L0766: 4, L0776: 4, L0754: 4, S0194: 4, H0341: 3, S0376: 3, H0393: 3, H0575: 3, H0538: 3, H0144: 3, H0716: 2, S0212: 2, H0637: 2, H0331: 2, H0632: 2, H0486: 2, H0590: 2, H0046: 2, H0051: 2, S0440: 2, H0509: 2, L0783: 2, L0663: 2, H0555: 2, L0748: 2, L0439: 2, L0745: 2, L0758: 2, L0362: 2, H0170: 1, H0685: 1, T0049: 1, H0177: 1, S0442: 1, S0408: 1, S0132: 1, S0476: 1, S0300: 1, S6022: 1, H0392: 1, H0537: 1, H0438: 1, H0587: 1, H0497: 1, H0270: 1, T0060: 1, H0013: 1,
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									L0759: 1, S0260: 1, L0599: 1, S0026: 1, H0423: 1, S0412: 1 and H0506: 1.		
HVVCN54	HVVCN54R	2125	2 - 460	4300							
HVVCN66	HVVCN66R	2126	3 - 212	4301							
HVVC013	HVVC013R	2127	2 - 352	4302				Gln-61 to Pro-68, Gln-103 to Ala-108, Tyr-111 to Thr-117.			
HVVC016	HVVC016R	2128	170 - 334	4303				Val-28 to Ser-33.			
HVVC087	HVVC087R	2129	3 - 404	4304				Lys-54 to Ala-67, Arg-77 to Thr-86.			
HVVC041	HVVC041R	2130	2 - 442	4305							
HVVC088	HVVC088R	2131	3 - 449	4306				Ala-35 to Ala-41, Pro-46 to Gly-54, Pro-67 to Gly-87.			
HVVC005	HVVC005R	2132	11 - 184	4307				Ser-23 to Lys-30.			
HVVC049	HVVC049R	2133	3 - 605	4308				Glu-74 to Arg-79, Glu-117 to Arg-134.			
HVVC070	HVVC070R	2134	10 - 144	4309				Arg-30 to Phe-36.	H0672: 2 and L0518: 1.		
HVVC093	HVVC093R	2135	1 - 630	4310							
HVVC028	HVVC028R	2136	105 - 335	4311							
HVVC032	HVVC032R	2137	35 - 217	4312				Arg-11 to Pro-17, Ser-33 to Lys-46.			
HVVC054	HVVC054R	2138	237 - 698	4313				His-1 to Asn-8, Arg-10 to Gly-16, Tyr-50 to Gly-56.	L0659: 55, H0644: 23, L0748: 18, L0666: 17, L0747: 17, H0622: 16, S0194: 16, H0553: 15,		

					L0662: 15, S0126: 15, L0740: 15, L0754: 14, H0031: 13, H0593: 12, L0649: 11, H0435: 11, L0757: 11, H0124: 10, S0250: 9, S0356: 8, H0672: 7, L0362: 7, L0779: 6, S0210: 5, L0771: 5, L0663: 5, L0664: 5, H0547: 5, L0750: 5, L0601: 5, S0360: 4, H0619: 4, L0764: 4, L0804: 4, L0775: 4, S0358: 3, H0486: 3, H0628: 3, H0264: 3, L0451: 3, L0776: 3, L0655: 3, L0783: 3, H0693: 3, H0660: 3, S0454: 3, L0749: 3, L0605: 3, S0192: 3, H0170: 2, H0294: 2, S0180: 2, H0586: 2, H0013: 2, H0687: 2, H0428: 2, L0483: 2, H0488: 2, S0450: 2, H0647: 2, S0208: 2, L0648: 2, L0523: 2, L0809: 2, L0665: 2, H0144: 2, L0565: 2, H0690: 2,				
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				H0518: 2, H0696: 2, S3012: 2, L0752: 2, L0755: 2, L0731: 2, H0665: 2, H0171: 1, H0656: 1, S0212: 1, S0376: 1, S0410: 1, S0132: 1, H0393: 1, L0717: 1, H0392: 1, H0331: 1, H0485: 1, T0040: 1, T0060: 1, L0021: 1, H0599: 1, T0082: 1, H0618: 1, H0052: 1, H0085: 1, T0110: 1, H0046: 1, H0050: 1, L0471: 1, H0355: 1, S0003: 1, H0615: 1, H0039: 1, L0143: 1, H0111: 1, L0455: 1, S0366: 1, H0135: 1, H0040: 1, H0551: 1, H0100: 1, L0564: 1, H0509: 1, H0517: 1, L0763: 1, L0769: 1, L0772: 1, L0646: 1, L0768: 1, L0375: 1, L0784: 1, L0806: 1, L0805: 1, L0653: 1, L0654: 1, L0517: 1, L0384: 1, L0383: 1, L0647: 1,				
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HVVCT62	HVVCT62R	2139	340 - 522	4314						
HVVCTU14	HVVCTU14R	2140	365 - 529	4315	Ile-1 to Ser-6, Lys-13 to His-25.		L0748: 18, L0794: 7, L0438: 7, L0777: 7, L0809: 6, L0439: 6, L0756: 6, L0750: 5, L0717: 3, L0770: 3, L0776: 3, L0664: 3, L0747: 3, L0757: 3, S0222: 2, H0013: 2, H0596: 2, H0040: 2, L0769: 2, L0768: 2, L0766: 2, H0672: 2, L0731: 2, L0758: 2, L0591: 2, L0599: 2, H0624: 1, S0342: 1, H0638: 1, S0376: 1, H0549: 1, H0587: 1,			

HVVCU50	HVVCU50R	2141	23 - 307	4316	Gln-8 to Lys-13, Glu-32 to Arg-56, Ser-60 to Thr-69.	H0574: 1, H0635: 1, S0049: 1, H0052: 1, T0010: 1, H0288: 1, H0286: 1, H0553: 1, L0455: 1, L0351: 1, H0538: 1, L0763: 1, L0638: 1, L0775: 1, L0659: 1, L0783: 1, L0789: 1, L0663: 1, L0665: 1, H0690: 1, S0152: 1, L0740: 1, L0753: 1 and S0424: 1.		
						L0747: 16, L0750: 15, L0752: 15, L0769: 9, L0757: 9, L0005: 8, L0775: 8, L0740: 8, L0774: 6, L0471: 5, H0087: 5, L0758: 5, H0656: 4, L0772: 4, L0731: 4, L0588: 4, H0657: 3, H0341: 3, H0638: 3, S0007: 3, S0046: 3, H0599: 3, S0049: 3, H0009: 3, H0412: 3, L0776: 3, L0783: 3, S0374: 3, H0660: 3, H0672: 3, L0749: 3, L0755: 3, H0352: 3, S0222: 2, H0441: 2, H0251: 2,		

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HVVCV41	HVVCV41R	2142	2 - 310	4317	Glu-1 to Gln-10, Val-74 to Arg-83.	L0600: 1.			
HVVCV68	HVVCV68R	2143	2 - 244	4318	Pro-12 to Ser-18, Pro-25 to Pro-30, Ala-62 to Ser-70.				
HVVCW75	HVVCW75R	2144	3 - 410	4319	Met-22 to Asp-27, Cys-43 to Trp-50, Asp-79 to Trp-93, Glu-124 to Glu-136.	L0794: 5, H0617: 4, H0486: 3, L0800: 3, L0764: 3, H0672: 3, L0751: 3, S0360: 2, H0188: 2, S0022: 2, L0769: 2, L0803: 2, L0809: 2, L0665: 2, L0361: 2, H0556: 1, H0583: 1, H0657: 1, S0418: 1, L0005: 1, S0354: 1, S0408: 1, S0045: 1, S0046: 1, S6014: 1, H0587: 1, H0333: 1, H0559: 1, H0596: 1, H0673: 1, H0616: 1, H0494: 1, L0761: 1, L0662: 1, L0651: 1, L0659: 1, L0382: 1, L5622: 1, L0663: 1, H0690: 1, H0670: 1, S0152: 1, S0390: 1, L0747: 1, L0777: 1, L0731: 1, L0758: 1, S0436: 1,			

HVVCX17	HVVCX17R	2145	124 - 297	4320	Asp-1 to Pro-10.	L0592: 1, L0601: 1 and S0424: 1.  H0052: 15, H0585: 12, L0740: 12, L0439: 11, L0758: 10, L0754: 9, L5286: 8, L0748: 8, H0141: 7, L0666: 7, H0521: 7, L0742: 7, L0749: 7, H0556: 6, S0222: 6, H0494: 6, L0743: 6, L0751: 6, L0757: 6, H0253: 5, T0010: 5, L0803: 5, L0731: 5, H0657: 4, S0360: 4, S0408: 4, S0046: 4, S0278: 4, H0618: 4, S0049: 4, H0617: 4, H0623: 4, S0038: 4, L0764: 4, L0766: 4, L0805: 4, L0809: 4, L0744: 4, L0746: 4, S0040: 3, S0212: 3, L0005: 3, H0441: 3, H0333: 3, H0013: 3, H0599: 3, H0009: 3, H0242: 3, H0644: 3, H0038: 3, H0551: 3, H0412: 3, T0042: 3, L0769: 3, L0804: 3, L0774: 3,	
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L0776: 3, L0792: 3, L0663: 3, L0438: 3, S0044: 3, S0406: 3, S0028: 3, L0745: 3, L0779: 3, L0752: 3, L0362: 3, S6024: 2, H0733: 2, S0132: 2, H0261: 2, H0455: 2, H0438: 2, H0497: 2, H0041: 2, L0471: 2, H0620: 2, H0024: 2, H0051: 2, H0266: 2, H0284: 2, S0250: 2, T0006: 2, S0366: 2, S0036: 2, H0591: 2, S0344: 2, L0369: 2, L5623: 2, L0791: 2, L0665: 2, S0374: 2, H0520: 2, S0126: 2, H0672: 2, H0436: 2, L0741: 2, L0747: 2, L0750: 2, L0756: 2, L0759: 2, S0436: 2, L0591: 2, L0592: 2, L0485: 2, L0608: 2, L0593: 2, L0595: 2, H0667: 2, H0423: 2, L0718: 2, H0149: 1, H0265: 1, H0139: 1, H0716: 1, S0114: 1,
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T0049: 1, S0218: 1, H0341: 1, S0001: 1, H0484: 1, H0483: 1, H0254: 1, H0255: 1, H0662: 1, H0306: 1, H0638: 1, S0418: 1, S0420: 1, S0356: 1, S0442: 1, S0358: 1, S0444: 1, H0637: 1, S0007: 1, S0045: 1, S0476: 1, H0619: 1, H0393: 1, S6026: 1, L0717: 1, H0370: 1, H0586: 1, H0587: 1, H0574: 1, T0040: 1, H0069: 1, S0280: 1, H0036: 1, S0010: 1, H0390: 1, H0318: 1, H0581: 1, H0234: 1, T0103: 1, H0546: 1, H0545: 1, H0046: 1, N0006: 1, H0569: 1, H0081: 1, H0050: 1, H0047: 1, N0008: 1, S0388: 1, H0107: 1, H0083: 1, H0375: 1, H0188: 1, H0428: 1, H0039: 1, H0424: 1, H0213: 1, L0142: 1, H0181: 1, H0606: 1,						
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HVVCX46	HVVCX46R	2146	35 - 418	4321	Arg-9 to Ile-31, Gln-38 to Lys-43, Gln-87 to Ala-92.	H0674: 1, H0135: 1, H0040: 1, H0616: 1, H0087: 1, H0264: 1, H0488: 1, H0268: 1, H0059: 1, H0100: 1, L0351: 1, H0334: 1, H0633: 1, S0142: 1, H0538: 1, S0426: 1, L0640: 1, L0637: 1, L5575: 1, L0800: 1, L0648: 1, L0794: 1, L0655: 1, L0657: 1, L0659: 1, L0542: 1, L0783: 1, L0382: 1, L5622: 1, H0144: 1, H0723: 1, H0519: 1, H0690: 1, H0435: 1, S0330: 1, H0539: 1, S0454: 1, S0404: 1, H0555: 1, S3014: 1, L0780: 1, L0755: 1, H0445: 1, H0595: 1, S0434: 1, L0588: 1, L0605: 1, L0366: 1, H0136: 1, H0542: 1, H0543: 1, H0422: 1, H0506: 1 and H0008: 1.		
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HVVCY29	HVVCY29R	2147	2 - 775	4322	Ser-116 to Pro-128. Ser-8 to Ser-14, Asn-68 to Tyr-74, His-80 to Val-91, Glu-141 to Phe-147, Ala-159 to Ser-170, Asp-184 to Gly-199.				
HVVCY55	HVVCY55R	2148	2 - 697	4323	Pro-60 to Gly-72, Gln-89 to Ser-94, Pro-121 to Pro-132, Pro-146 to Pro-166.				
HVVCY60	HVVCY60R	2149	1 - 588	4324	Lys-30 to Glu-36, Lys-55 to Tyr-68, Ile-82 to Asp-87, Trp-115 to Ser-125, Pro-139 to Pro-146.				
HVVCY62	HVVCY62R	2150	3 - 620	4325	Ala-17 to Lys-23, Leu-25 to Ala-35, Gln-71 to Ala-76, Tyr-79 to His-85, Pro-112 to Gly-120, Gly-149 to Tyr-165, Lys-175 to His-181.				
HVVCY75	HVVCY75R	2151	139 - 276	4326					
HVVCY77	HVVCY77R	2152	2 - 598	4327	Glu-179 to Ala-184.				
HVVCZ18	HVVCZ18R	2153	423 - 542	4328					
HVVCZ50	HVVCZ50R	2154	139 - 291	4329					
								H0412: 26, S0360: 11, S0126: 8, H0014: 7, H0628: 6, H0413: 6,	

		S0212: 5, S0045: 5, H0411: 5, H0486: 4, S0003: 4, S0210: 4, H0672: 4, L0731: 4, S0192: 4, S0418: 3, S0046: 3, H0169: 3, L0649: 3, S0040: 2, H0671: 2, H0662: 2, S0358: 2, S0376: 2, S0132: 2, H0635: 2, H0098: 2, H0544: 2, H0546: 2, H0545: 2, H0242: 2, H0015: 2, S0250: 2, H0551: 2, H0268: 2, H0494: 2, L0659: 2, L0517: 2, L0809: 2, H0689: 2, S0028: 2, H0506: 2, H0170: 1, H0171: 1, H0295: 1, H0661: 1, H0639: 1, H0574: 1, H0599: 1, L0022: 1, H0108: 1, H0042: 1, H0004: 1, H0044: 1, H0355: 1, H0510: 1, H0266: 1, S0318: 1, S0316: 1, S0022: 1, H0328: 1, H0039: 1, H0622: 1, H0634: 1, H0488: 1, H0623: 1,			
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HVDC09	HVDC09R	2155	161 - 313	4330		L0564: 1, H0509: 1, L0764: 1, L0662: 1, L0653: 1, H0144: 1, S0374: 1, L0565: 1, H0670: 1, S0380: 1, H0518: 1, H0555: 1, L0748: 1, L0740: 1, L0751: 1, L0754: 1, L0749: 1, L0777: 1, L0362: 1 and S0196: 1.		
						L0777: 17, L0439: 13, L0731: 9, H0521: 8, S0003: 5, H0547: 5, L0759: 5, L0803: 4, L0748: 4, L0750: 4, L0752: 4, L0351: 3, H0560: 3, L0751: 3, L0749: 3, L0757: 3, H0543: 3, S0134: 2, L0415: 2, S0116: 2, S0358: 2, S0376: 2, H0318: 2, H0581: 2, H0421: 2, H0328: 2, H0090: 2, L0646: 2, L0662: 2, L0768: 2, L0766: 2, S0328: 2, H0215: 2, S0406: 2, L0744: 2, L0608: 2, S0192: 2, H0170: 1, H0171: 1, H0556: 1,		

	H0222: 1, H0713: 1, L0420: 1, H0661: 1, H0663: 1, S0360: 1, S0410: 1, H0580: 1, S0007: 1, H0619: 1, H0351: 1, S6022: 1, H0587: 1, H0013: 1, H0427: 1, H0097: 1, H0052: 1, T0110: 1, H0231: 1, L0471: 1, H0266: 1, H0687: 1, S0250: 1, S0214: 1, H0428: 1, T0023: 1, H0628: 1, H0551: 1, H0412: 1, H0494: 1, H0366: 1, S0352: 1, S0440: 1, H0633: 1, H0646: 1, H0538: 1, S0422: 1, S0426: 1, L0369: 1, L0500: 1, L0770: 1, L0637: 1, L0642: 1, L0764: 1, L0381: 1, L0774: 1, L0775: 1, L0375: 1, L0806: 1, L0805: 1, L0654: 1, L0659: 1, L0783: 1, L0666: 1, L0664: 1, L0665: 1, S0374: 1, S0148: 1, H0520: 1, H0519: 1,				
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									H0593: 1, S0126: 1, H0660: 1, H0648: 1, H0672: 1, S0330: 1, H0539: 1, S0152: 1, S0037: 1, L0747: 1, L0605: 1, S0011: 1, H0423: 1, H0422: 1 and H0506: 1.			
HVVDH44	HVVDH44R	2156	2 - 580	4331								
HVVDM23	HVVDM23R	2157	3 - 545	4332								
HVVDM31	HVVDM31R	2158	3 - 446	4333								
HVVDM45	HVVDM45R	2159	1 - 390	4334					L0742: 10, H0144: 6, H0265: 5, S0116: 4, S0046: 4, S0222: 4, H0556: 3, H0250: 3, H0052: 3, S0027: 3, L0595: 3, S0212: 2, H0306: 2, S0358: 2, H0013: 2, H0618: 2, H0124: 2, H0100: 2, S0053: 2, H0660: 2, S0330: 2, S3012: 2, L0748: 2, L0439: 2, L0745: 2, L0757: 2, H0445: 2, S0342: 1, H0484: 1, H0638: 1, S0007: 1, H0393: 1, H0437: 1, H0549: 1, H0438: 1, H0486: 1, H0253: 1, H0390: 1,			

						H0544: 1, H0046: 1, H0009: 1, H0023: 1, N0007: 1, T0010: 1, H0188: 1, H0687: 1, S0003: 1, H0030: 1, S0364: 1, L0455: 1, S0366: 1, H0090: 1, H0038: 1, H0551: 1, H0412: 1, H0059: 1, S0038: 1, H0130: 1, H0641: 1, S0142: 1, S0002: 1, H0517: 1, L0643: 1, L0771: 1, L0794: 1, L0766: 1, L0775: 1, L0654: 1, L0655: 1, L0352: 1, S0008: 1, H0435: 1, H0659: 1, H0658: 1, H0672: 1, H0521: 1, H0522: 1, S0044: 1, H0576: 1, L0779: 1, L0605: 1, L0593: 1, S0026: 1, H0667: 1, S0276: 1, S0196: 1, H0542: 1, H0423: 1 and H0506: 1.			
HVVDM53	HVVDM53R	2160	2 - 241	4335					
HVVDM83	HVVDM83R	2161	204 - 524	4336		L0766: 9, L0665: 7, L0659: 6, L0761: 5, L0662: 4, L0776: 4,			



					S0418: 3, S0007: 3, H0559: 3, H0457: 3, H0617: 3, L0800: 3, L0751: 3, L0750: 3, H0309: 2, L0769: 2, L0667: 2, L0794: 2, L0664: 2, L0756: 2, L0779: 2, L0777: 2, L0758: 2, H0543: 2, H0556: 1, S0402: 1, S0114: 1, H0650: 1, H0656: 1, S0116: 1, H0484: 1, H0254: 1, H0255: 1, S0420: 1, S0354: 1, S0358: 1, H0676: 1, L0717: 1, S0222: 1, H0614: 1, L0622: 1, H0486: 1, H0069: 1, H0253: 1, H0581: 1, H0024: 1, H0051: 1, H0100: 1, H0494: 1, H0625: 1, H0561: 1, S0144: 1, L0374: 1, L0771: 1, L0773: 1, L0768: 1, L0387: 1, L0774: 1, L0653: 1, L0657: 1, L0384: 1, L0789: 1, L0790: 1, L0792: 1, H0684: 1, H0659: 1,				
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							H0670: 1, H0672: 1, H0521: 1, S0027: 1, L0741: 1, L0754: 1, L0749: 1, L0780: 1, H0422: 1 and H0352: 1.			
HVVDN29	HVVDN29R	2162	2 - 685	4337	Asp-50 to Gly-55.					
HVVDN77	HVVDN77R	2163	1 - 594	4338						
HVVDP70	HVVDP70R	2164	40 - 354	4339	Lys-24 to Glu-34, Pro-47 to Arg-56, Tyr-77 to Pro-90.					
HVVDQ46	HVVDQ46R	2165	106 - 423	4340	Lys-12 to Thr-18, Glu-20 to Lys-26, Lys-83 to Lys-90.		H0551: 9, L0662: 9, L0471: 8, L0754: 7, L0766: 6, L0666: 6, S0358: 5, L0663: 5, L0750: 5, L0779: 5, S0007: 4, H0373: 4, L0770: 4, L0803: 4, L0777: 4, L0752: 4, L0757: 4, L0758: 4, S0114: 3, S0212: 3, H0673: 3, H0412: 3, L0769: 3, L0805: 3, L0776: 3, L0809: 3, S0126: 3, L0740: 3, H0506: 3, H0657: 2, S0116: 2, S0356: 2, S0360: 2, H0411: 2, H0390: 2, H0318: 2, S0214: 2, H0644: 2, H0617: 2, H0494: 2,			

	L0761: 2, L0773: 2, L0649: 2, L0774: 2, L0653: 2, L0529: 2, H0435: 2, L0749: 2, L0731: 2, L0588: 2, L0608: 2, S0026: 2, H0543: 2, H0294: 1, H0650: 1, H0341: 1, S0354: 1, S0376: 1, H0580: 1, H0339: 1, H0208: 1, S0132: 1, H0640: 1, H0369: 1, H0438: 1, H0574: 1, H0486: 1, H0101: 1, H0427: 1, H0097: 1, H0575: 1, H0037: 1, H0230: 1, H0052: 1, L0040: 1, H0544: 1, H0545: 1, H0086: 1, H0009: 1, S0024: 1, H0510: 1, S0250: 1, H0428: 1, H0166: 1, H0102: 1, H0560: 1, S0294: 1, H0509: 1, S0150: 1, H0633: 1, H0647: 1, L0631: 1, L0646: 1, L0764: 1, L0804: 1, L0806: 1, L0606: 1, L0657: 1, L0659: 1, L0636: 1,					
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HVVDQ49	HVVDQ49R	2166	2 - 103	4341		L0783: 1, L0382: 1, L0789: 1, L0664: 1, L0665: 1, H0593: 1, H0690: 1, H0682: 1, H0684: 1, H0648: 1, H0672: 1, H0539: 1, H0521: 1, H0555: 1, H0478: 1, L0609: 1, L0744: 1, L0748: 1, L0747: 1, L0755: 1, H0445: 1, H0343: 1, L0581: 1, H0653: 1 and H0352: 1.		
HVVDQ49	HVVDQ49R	2166	2 - 103	4341		H0521: 7, H0052: 6, H0622: 5, L0646: 5, H0617: 4, L0662: 4, L0659: 4, H0556: 3, H0341: 3, H0484: 3, S0358: 3, H0580: 3, H0551: 3, L0369: 3, L0657: 3, L0664: 3, H0670: 3, S0328: 3, H0445: 3, L0603: 3, H0583: 2, S0212: 2, S0376: 2, S0007: 2, S0045: 2, S0046: 2, S0132: 2, H0438: 2, H0586: 2, H0486: 2, H0618: 2, S0474: 2, S0049: 2, H0545: 2,		

					H0268: 2, H0494: 2, H0509: 2, H0647: 2, L5565: 2, L0645: 2, L0764: 2, L0666: 2, L0665: 2, H0520: 2, H0689: 2, H0658: 2, S0152: 2, S0406: 2, S3014: 2, L0439: 2, L0751: 2, L0754: 2, L0750: 2, L0758: 2, S0434: 2, L0596: 2, L0581: 2, L0595: 2, L0601: 2, S6024: 1, H0294: 1, H0657: 1, H0656: 1, L0415: 1, H0669: 1, H0671: 1, S0356: 1, S0354: 1, S0360: 1, S0410: 1, H0340: 1, S0476: 1, S0278: 1, H0549: 1, H0550: 1, H0370: 1, H0587: 1, H0497: 1, H0643: 1, H0257: 1, H0318: 1, H0457: 1, H0041: 1, H0123: 1, H0024: 1, H0071: 1, H0375: 1, H0290: 1, H0292: 1, H0428: 1, L0142: 1, S0036: 1, H0063: 1, H0087: 1,	
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HVVDs12	HVVDs12R	2167	1 - 732	4342				H0264: 1, H0059: 1, H0100: 1, S0448: 1, S0450: 1, S0440: 1, H0646: 1, S0144: 1, S0002: 1, L0762: 1, L0640: 1, L0639: 1, L0637: 1, L0372: 1, L0643: 1, L0771: 1, L0773: 1, L0648: 1, L0386: 1, L0774: 1, L0775: 1, L0375: 1, L0376: 1, L0378: 1, L0806: 1, L0653: 1, L0776: 1, L0782: 1, L0383: 1, L0791: 1, H0693: 1, H0547: 1, H0519: 1, H0435: 1, H0660: 1, H0672: 1, S0330: 1, H0696: 1, H0134: 1, H0478: 1, S0028: 1, L0743: 1, L0745: 1, L0747: 1, L0749: 1, L0731: 1, S0436: 1, L0593: 1, H0667: 1, H0543: 1, H0423: 1 and H0352: 1.		
HVVDs21	HVVDs21R	2168	2 - 730	4343				AR104: 17, AR089: 10, AR096: 10, AR061: 8, AR060: 4, AR055:		

[illegible]

					L0762: 2, L0770: 2, L0653: 2, L0517: 2, S0044: 2, L0442: 1, H0583: 1, L0443: 1, S0110: 1, S0282: 1, S0400: 1, H0661: 1, S0348: 1, S0356: 1, S0444: 1, H0329: 1, S0007: 1, H0619: 1, S6026: 1, S0300: 1, L0717: 1, S6022: 1, H0550: 1, H0592: 1, H0587: 1, H0599: 1, H0042: 1, H0590: 1, H0318: 1, H0309: 1, H0545: 1, H0563: 1, H0564: 1, H0123: 1, H0019: 1, S0050: 1, L0163: 1, S0388: 1, H0356: 1, H0328: 1, H0688: 1, H0039: 1, T0023: 1, H0031: 1, H0111: 1, H0169: 1, S0364: 1, L0455: 1, H0135: 1, H0163: 1, T0067: 1, T0069: 1, T0004: 1, H0100: 1, S0112: 1, L0370: 1, L0598: 1, L0769: 1, L0630: 1, L0800: 1,	
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HVVDT25	HVVDT25R	2170	231 - 353	4345	Thr-35 to Asn-41.	L0648: 1, L0363: 1, L0768: 1, L0649: 1, . L0803: 1, L0775: 1, L0375: 1, L0651: 1, L0784: 1, L0523: 1, L0805: 1, L0776: 1, L0527: 1, L0657: 1, L0635: 1, L0783: 1, L0789: 1, L0532: 1, L0664: 1, H0691: 1, T0068: 1, S0148: 1, H0693: 1, H0520: 1, H0593: 1, H0689: 1, H0684: 1, S0330: 1, S0380: 1, S0174: 1, H0555: 1, L0612: 1, L0743: 1, L0748: 1, L0751: 1, L0749: 1, L0779: 1, L0759: 1, L0689: 1, S0434: 1, L0604: 1, L0366: 1, S0106: 1 and S0021: 1.		
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HVVDT29	HVVDT29R	2171	109 - 471	4346	Glu-11 to Arg-17, Arg-66 to Pro-79, Ser-104 to Gln-112, Ser-116 to Ser-125.	L0748: 11, L0758: 10, L0747: 8, L0439: 7, H0144: 6, L0805: 5, L0662: 4, H0341: 3, H0052: 3, L0794: 3, L0803: 3, L0809: 3, H0672: 3, L0741: 3, L0752: 3, H0619: 2, S0222: 2, H0013: 2, H0014: 2, H0266: 2, H0553: 2, L0455: 2, H0591: 2, L0770: 2, L0646: 2, L0764: 2, L0666: 2, L0665: 2, H0547: 2, S0126: 2, L0596: 2, L0589: 2, L0605: 2, H0543: 2, H0423: 2, H0624: 1, H0556: 1, H0686: 1, S0040: 1, H0717: 1, H0671: 1, S0476: 1, L0717: 1, H0411: 1, H0586: 1, H0333: 1, H0574: 1, L0021: 1, H0575: 1, H0618: 1, S0010: 1, H0318: 1, H0544: 1, H0009: 1, H0050: 1, L0471: 1, L0163: 1, S6028: 1,		
HVVDT44	HVVDT44R	2172	2 - 460	4347				

HVVDU49	HVVDU49R	2173	328 - 600	4348	Asn-1 to Leu-6.	S0022: 1, S0214: 1, H0628: 1, L0456: 1, S0366: 1, S0036: 1, H0090: 1, H0038: 1, H0040: 1, H0551: 1, H0264: 1, H0059: 1, S0112: 1, T0041: 1, H0647: 1, H0652: 1, S0426: 1, L0763: 1, L0638: 1, L0796: 1, L0630: 1, L0768: 1, L0649: 1, L0774: 1, L0378: 1, L0653: 1, L0657: 1, L0659: 1, L0783: 1, L0647: 1, L0791: 1, L0663: 1, L0664: 1, S0053: 1, H0519: 1, H0539: 1, H0696: 1, S0406: 1, H0555: 1, H0627: 1, L0744: 1, L0754: 1, L0746: 1, L0759: 1, S0031: 1, L0584: 1, L0608: 1, L0594: 1, S0026: 1, H0665: 1, H0136: 1, H0216: 1 and H0422: 1.	H0672: 2 and S6028: 1.	
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HVVDW02	HVVDW02R	2174	3 - 266	4349					
HVVDW61	HVVDW61R	2175	2 - 502	4350	Ser-1 to Pro-9.				
HVVDX40	HVVDX40R	2176	294 - 455	4351					
HVVDX90	HVVDX90R	2177	14 - 511	4352					
HWHHD07	HWHHD07R	2178	2 - 391	4353					
HWLAC51	HWLAC51R	2179	11 - 178	4354					
HWLJR51	HWLJR51R	2180	167 - 343	4355			L0766: 3, H0651: 2, H0686: 1, H0656: 1, S0358: 1, L0773: 1, L0775: 1, L0657: 1, L0809: 1, L0792: 1 and L0731: 1.		
HWLME48	HWLME48R	2181	3 - 197	4356	Lys-1 to Asp-8, Lys-41 to Gln-50.		S0152: 7, L0601: 4, H0013: 3, H0551: 3, H0264: 3, H0521: 3, S0046: 2, H0050: 2, H0266: 2, S0022: 2, H0031: 2, H0644: 2, H0494: 2, H0519: 2, H0556: 1, S0040: 1, T0049: 1, S0001: 1, S0356: 1, S0354: 1, S0376: 1, S0045: 1, S0132: 1, H0549: 1,		

HWLVY65	HWLVY65R	2182	209 - 373	4357			H0550: 1, H0486: 1, T0039: 1, T0040: 1, S0280: 1, H0042: 1, H0575: 1, T0082: 1, H0421: 1, L0471: 1, H0373: 1, H0051: 1, H0355: 1, H0615: 1, H0622: 1, L0483: 1, S0364: 1, H0591: 1, H0268: 1, H0561: 1, S0210: 1, L0364: 1, L0649: 1, L0538: 1, L0659: 1, S0428: 1, H0144: 1, L0602: 1, S0390: 1, S0028: 1, L0758: 1, S0434: 1, L0485: 1 and H0543: 1.		
HWMIB35	HWMIB35R	2183	1 - 435	4358	Cys-6 to Ser-12, Gln-27 to Glu-32, Arg-52 to Arg-67, Asp-140 to Asp-145.				
HWNFO25	HWNFO25R	2184	43 - 210	4359	Thr-26 to Ile-34.				



[0040] The first column in Table 1 provides a unique "Clone ID NO:Z" for a cDNA clone related to each contig sequence disclosed in Table 1. This clone ID references the cDNA clone which contains at least the 5' most sequence of the assembled contig, and at least a portion of SEQ ID NO:X was determined by directly sequencing the referenced clone. The reference clone may have more sequence than described in the sequence listing or the clone may have less. In the vast majority of cases, however, the clone is believed to encode a full-length polypeptide. In the case where a clone is not full-length, a full-length cDNA can be obtained by methods known in the art and/or as described elsewhere herein.

[0041] The second column in Table 1 provides a unique "Contig ID" identification for each contig sequence. The third column provides the "SEQ ID NO:X" identifier for each of the ovarian associated contig polynucleotide sequences disclosed in Table 1. The fourth column, "ORF (From-To)", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence "SEQ ID NO:X" that delineate the preferred open reading frame (ORF) shown in the sequence listing and referenced in Table 1, column 5, as SEQ ID NO:Y. Where the nucleotide position number "To" is lower than the nucleotide position number "From", the preferred ORF is the reverse complement of the referenced polynucleotide sequence.

[0042] The fifth column in Table 1 provides the corresponding SEQ ID NO:Y for the polypeptide sequence encoded by the preferred ORF delineated in column 4. In one embodiment, the invention provides an amino acid sequence comprising, or alternatively consisting of, a polypeptide encoded by the portion of SEQ ID NO:X delineated by "ORF (From-To)". Also provided are polynucleotides encoding such amino acid sequences and the complementary strand thereto.

[0043] Column 6 in Table 1 lists residues comprising epitopes contained in the polypeptides encoded by the preferred ORF (SEQ ID NO:Y), as predicted using the algorithm of Jameson and Wolf, (1988) Comp. Appl. Biosci. 4:181-186. The Jameson-Wolf antigenic analysis was performed using the computer program PROTEAN (Version 3.11 for the Power MacIntosh, DNASTAR, Inc., 1228 South Park Street Madison, WI). In specific embodiments, polypeptides of the invention comprise, or alternatively consist of, at least one, two, three, four, five or more of the predicted epitopes as described in Table 1. It

will be appreciated that depending on the analytical criteria used to predict antigenic determinants, the exact address of the determinant may vary slightly.

[0044] Column 7 in Table 1 provides an expression profile and library code: count for each of the contig sequences (SEQ ID NO:X) disclosed in Table 1, which can routinely be combined with the information provided in Table 4 and used to determine the normal or diseased tissues, cells, and/or cell line libraries which predominantly express the polynucleotides of the invention. The first number in column 7 (preceding the colon), represents the tissue/cell source identifier code corresponding to the code and description provided in Table 4. For those identifier codes in which the first two letters are not "AR", the second number in column 7 (following the colon) represents the number of times a sequence corresponding to the reference polynucleotide sequence was identified in the tissue/cell source. Those tissue/cell source identifier codes in which the first two letters are "AR" designate information generated using DNA array technology. Utilizing this technology, cDNAs were amplified by PCR and then transferred, in duplicate, onto the array. Gene expression was assayed through hybridization of first strand cDNA probes to the DNA array. cDNA probes were generated from total RNA extracted from a variety of different tissues and cell lines. Probe synthesis was performed in the presence of <sup>33</sup>P dCTP, using oligo(dT) to prime reverse transcription. After hybridization, high stringency washing conditions were employed to remove non-specific hybrids from the array. The remaining signal, emanating from each gene target, was measured using a Phosphorimager. Gene expression was reported as Phosphor Stimulating Luminescence (PSL) which reflects the level of phosphor signal generated from the probe hybridized to each of the gene targets represented on the array. A local background signal subtraction was performed before the total signal generated from each array was used to normalize gene expression between the different hybridizations. The value presented after "[array code]:" represents the mean of the duplicate values, following background subtraction and probe normalization. One of skill in the art could routinely use this information to identify normal and/or diseased tissue(s) which show a predominant expression pattern of the corresponding polynucleotide of the invention or to identify polynucleotides which show predominant and/or specific tissue and/or cell expression. The sequences disclosed herein have been determined to be



predominantly expressed in ovarian tissues, including normal and diseased ovarian tissues (See Table 1, column 7 and Table 4).

[0045] Column 8 in Table 1 provides a chromosomal map location for certain polynucleotides of the invention. Chromosomal location was determined by finding exact matches to EST and cDNA sequences contained in the NCBI (National Center for Biotechnology Information) UniGene database. Each sequence in the UniGene database is assigned to a "cluster"; all of the ESTs, cDNAs, and STSs in a cluster are believed to be derived from a single gene. Chromosomal mapping data is often available for one or more sequence(s) in a UniGene cluster; this data (if consistent) is then applied to the cluster as a whole. Thus, it is possible to infer the chromosomal location of a new polynucleotide sequence by determining its identity with a mapped UniGene cluster.

[0046] A modified version of the computer program BLASTN (Altshul et al., J. Mol. Biol. 215:403-410 (1990), and Gish et al., Nat. Genet. 3:266-272 (1993)) was used to search the UniGene database for EST or cDNA sequences that contain exact or near-exact matches to a polynucleotide sequence of the invention (the 'Query'). A sequence from the UniGene database (the 'Subject') was said to be an exact match if it contained a segment of 50 nucleotides in length such that 48 of those nucleotides were in the same order as found in the Query sequence. If all of the matches that met this criteria were in the same UniGene cluster, and mapping data was available for this cluster, it is indicated in Table 1 under the heading "Cytologic Band". Where a cluster had been further localized to a distinct cytologic band, that band is disclosed; where no banding information was available, but the gene had been localized to a single chromosome, the chromosome is disclosed.

[0047] Once a presumptive chromosomal location was determined for a polynucleotide of the invention, an associated disease locus was identified by comparison with a database of diseases which have been experimentally associated with genetic loci. The database used was the Morbid Map, derived from OMIM™ (*supra*). If the putative chromosomal location of a polynucleotide of the invention (Query sequence) was associated with a disease in the Morbid Map database, an OMIM reference identification number was noted in column 9, Table 1, labeled "OMIM Disease Reference(s)". Table 5 is a key to the OMIM reference identification numbers (column 1), and provides a description of the associated disease in Column 2.

TABLE 2

Clone ID NO:Z	Config ID:	SEQ ID NO: X	Analysis Method	PFam/NR Description	PFam/NR Accession Number	Score/ Percent Identity	NT From	NT To
HOVCD34	396327	11	blastx.2	(AK000844) unnamed protein product [Homo sapiens]	dbj BAA91396.1	58%	319	167
HEBGD58	498281	12	blastx.2	eggshell protein - fluke (Schistosoma haematobium) (subclone 1)	pir A44805 A44805	74%	3	98
HETCD42	533532	13	blastx.2	actin capping protein alpha subunit [Homo sapiens]	gb AAA88848.1	100%	90	947
HTXKC18	535854	14	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	62%	873	676
HLD RK20	553765	15	blastx.2	complement factor B [Homo sapiens]	emb CAA51389.1	91%	150	1283
H2MBD33	558474	16	blastx.2	NBR2 PROTEIN (NEXT TO BRCA1 GENE 2 PROTEIN).	sp O15453 NBR2_H UMAN	100%	138	290
HSYBX61	558708	17	blastx.2	N-cadherin [Homo sapiens]	gb AAA03236.1	98%	3	515
HELHC03	562745	18	blastx.2	(AF118082) PRO1902 [Homo sapiens]	gb AAF22026.1 AF1 18094 21	67% 81%	1063 1154	905 1089
HOFMP70	585385	19	blastx.2	precursor polypeptide	emb CAA33261.1	75%	120	347

HSKNZ25	585675	20	blastx.2	(AA -21 to 782) [Homo sapiens]	gb AAA88038.1	63%	522	686
HDPFK39	588869	21	blastx.2	unknown protein [Homo sapiens]	gb AAA59491.1	99% 90%	79 681	687 746
HL1AB07	638220	22	blastx.2	leukocyte adhesion glycoprotein precursor [Homo sapiens]	gb AAD34121.1 AF1 51884 1	100% 91%	2 463	466 498
HHGAS83	654868	23	blastx.2	(AF151884) CGI-126 protein [Homo sapiens]	gb AAD02337.1	100%	133	393
HTSGU37	704405	24	blastx.2	(AF044671) MM46 [Homo sapiens]	gb AAC33512.1	100%	117	434
				(AF019406) collagen type IX alpha 2 chain [Homo sapiens]		50%	192	434
						51%	189	431
						40%	12	434
						51%	192	431
						52%	195	431
						53%	192	431
						47%	156	431
						54%	189	431
						46%	156	431
						52%	195	431
						47%	195	431
						48%	192	431
						38%	15	431
						48%	192	431
						50%	195	434
						46%	192	431
						37%	15	431
						49%	195	431

[illegible]

H2LAN34	705692	25	blastx.2	unnamed protein product [unidentified]			38%	240	100
							50%	471	418
							32%	501	421
HPMBZ40	711500	26	blastx.2	fusion protein: ubiquitin (bases 43_513); ribosomal protein S27a (bases 217_532) [Rattus norvegicus]	emb CAB42187.1		64%	14	199
							87%	402	563
HL YEP52	732342	27	blastx.2	tyrosine kinase activator protein 1 (TKA-1) [Homo sapiens]	emb CAA90511.1		95%	101	580
							92%	585	1007
							51%	149	547
							35%	619	1008
							32%	619	1008
							38%	775	846
HTTEC47	745343	28	blastx.2	unknown protein [Homo sapiens]	gb AAA88038.1		73%	696	232
							77%	229	20
							63%	902	627
HOFMO90	746416	29	blastx.2	(AF046001) zinc finger transcription factor [Homo sapiens]	gb AAC78561.1		89%	122	367
							70%	348	440
HCHND34	762806	30	blastx.2	cytochrome oxidase subunit III [Phoca vitulina]	emb CAA45263.1		81%	12	497
							86%	500	778

HAMGI86	785328	31	blastx.2	unnamed protein product [unidentified]	emb CAB42212.1	91% 94%	424 611	609 667
HLWCN67	794213	32	blastx.2	(AK014485) putative [Mus musculus]	dbj BAB29387.1	80%	386	631
HOFAC09	806819	33	blastx.2	acidic ribosomal phosphoprotein (P0) [Homo sapiens]	gb AAA36470.1	87% 52%	42 5	812 55
HRDEL61	824886	34	blastx.2	X-linked retinopathy protein [C-terminal, clone XEH.8c] [human, Peptide Partial, 100 aa] [Homo sapiens]	gb AAB26149.1	67% 45%	808 644	632 576
HDPOR60	828176	35	blastx.2	(AF151799) CGI-40 protein [Homo sapiens]	gb AAD34036.1 AF151799 1	96% 82%	8 8	1867 1867
HPRTS71	828574	36	blastx.2	rTSbeta [Homo sapiens]	emb CAA61761.1	100%	45	458
HOHBI90	828862	37	blastx.2	tyrosine kinase receptor [Homo sapiens]	gb AAA61243.1	90% 63% 34% 53%	193 159 268 375	417 281 396 419
HOHAL47	828872	38	blastx.2	pericentriol material 1 [Homo sapiens]	gb AAA60120.1	88%	328	879
HYASE58	829298	39	blastx.2	O-6-methylguanine-DNA methyltransferase [Homo sapiens]	gb AAA59594.1	99%	74	694
HKAAH95	829958	40	blastx.2	ribosomal protein L22	emb CAA55204.1	70%	41	418

HTTIQ02	829981	41	blastx.2	[Rattus norvegicus] activating transcription factor 3 [Homo sapiens]	gb AAA20506.1	96%	44	391
HWACG9 1	830195	42	blastx.2	heat shock protein 90, hsp90 [rats, brain, Peptide, 724 aa] [Rattus sp.]	gb AAB23369.1	82% 93% 37% 76%	119 88 60 573	610 132 170 611
HUFBX52	830497	43	blastx.2	tenascin X [Homo sapiens]	gb AAB47488.1 AAB 47488	99% 100% 29% 26% 30% 27% 29% 28% 25% 27% 28% 28% 27% 28% 29% 24% 24% 32% 29% 24% 30% 32%	2 1525 20 20 20 20 17 20 17 20 8 2 14 20 17 20 365 20 413 11 2 20 17	1525 1785 1255 1114 1033 991 988 934 1096 898 973 856 892 712 712 1150 973 946 907 991 589 589

						29%	20	712
						27%	20	601
						27%	2	856
						31%	716	1111
						25%	176	1012
						30%	176	562
						25%	437	1096
						29%	92	565
						25%	521	1135
						23%	437	1045
						23%	434	1096
						20%	488	1231
						25%	860	1141
						22%	557	1111
						25%	860	1153
						24%	557	1309
						28%	809	1135
						20%	641	1117
						27%	437	1021
						39%	437	604
						36%	1487	1690
						27%	557	1096
						28%	1487	1684
						23%	788	1135
						22%	809	1309
						30%	1487	1684
						33%	638	877
						29%	35	331
						23%	455	1045
						28%	1487	1684



							27%	1487	1684
							30%	622	825
							25%	1487	1684
							37%	1556	1690
							28%	1487	1684
							23%	1487	1690
							27%	316	501
							48%	1110	1190
							30%	962	1150
							64%	1101	1142
							32%	267	404
							26%	52	498
							52%	1607	1663
							32%	1089	1181
							32%	1089	1181
							22%	650	1027
							53%	1398	1436
							60%	1089	1118
							41%	189	257
							29%	118	255
							37%	979	1083
							29%	1024	1146
							35%	361	480
							34%	1050	1175
HWLJE49	831453	44	blastx.2	2A9 peptide [Homo sapiens]	gb AAA35886.1		98%	46	315
HLQBT44	832454	45	blastx.2	precursor polypeptide [Homo sapiens]	emb CAA28169.1		100%	175	357
HSLGG58	833088	46	blastx.2	(AF096304) putative sterol reductase SR-1	gb AAD09765.1		100%	134	997
							97%	1018	1305

HCHBQ33	840756	47	blastx.2	[Homo sapiens] (AB005624) rig-analog DNA-binding protein [Sus scrofa]	dbj BAA21510.1	61%	976	1029
HDTMK30	840862	48	blastx.2	cysteine-rich intestinal protein [Homo sapiens]	gb AAB61158.1	100%	123	353
HDPFX64	841088	49	blastx.2	quinone oxidoreductase [Homo sapiens]	gb AAA60239.1	100%	404	1096
HODFG71	843485	50	blastx.2	(AF081114) ORF2 [Mus musculus domesticus]	gb AAC72810.1	29% 34% 50% 41% 34%	1121 591 281 1188 860	834 301 198 1102 717
HCE3I65	844534	51	blastx.2	kinesin-like motor protein KIF1C [Homo sapiens]	gb AAC52117.1	100%	11	172
HSADVH65	847355	52	blastx.2	plasmolipin [Rattus norvegicus]	emb CAA90017.1	48%	11	382
HBXFT41	847647	53	blastx.2	P26s4 [Cricetinae gen. sp.]	gb AAB34132.1	93%	707	805
HBMCM3 8	847821	54	blastx.2	(AF161356) HSPC093 [Homo sapiens]	gb AAF28916.1 AF1 61356_1	55% 71% 59%	406 485 333	266 390 268

HACBO42	849064	55	blastx.2	G-protein coupled receptor, SREB1 - human	pir JC7287 JC7287	63%	534	502
HODBF86	859572	56	blastx.2	(AF123880) gag polyprotein [multiple sclerosis associated retrovirus element]	gb AAD48374.1	40% 35%	225 542	437 652
HOABP90	859622	57	blastx.2	(AF089895) cAMP-dependent protein kinase subunit R2 beta [Oryctolagus cuniculus]	gb AAF00037.1	97%	628	735
HE8UE42	862010	58	blastx.2	(AJ224875) glucosyltransferase [Homo sapiens]	emb CAA12176.1	99%	15	1610
HUSJJ59	862481	59	blastx.2	(AF070661) HSPC005 [Homo sapiens]	gb AAD20967.1	100%	80	316
HSSDM07	863515	60	blastx.2	TcD37 homolog [Homo sapiens]	gb AAF04914.1 U67085_1	94% 95% 95%	224 647 160	691 1090 225
HBCBW52	866444	61	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	69%	1498	1202
HOGAS18	867969	62	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	79%	508	380
HHSDL18	869701	63	blastx.2	(AF118082) PRO1902 [Homo sapiens]	gb AAF22026.1 AF118094_21	65% 61% 67%	590 429 317	721 536 427

HLD0G81	874506	65	blastx.2	(AF153191) nm23-H7 [Homo sapiens]	gb AAD34622.1 AF1 53191.1	100%	1232	798
HTXQF81	874608	66	blastx.2	A4 protein [Homo sapiens]	gb AAA35499.1	29%	1208	813
HCRNG90	874787	67	blastx.2	5'-nucleotidase [Homo sapiens]	emb CAA39271.1	100%	173	628
HPWCL64	874891	68	blastx.2	SPIN protein [Homo sapiens]	emb CAA75163.1	98%	156	911
HWLMV6 2	874930	69	blastx.2	(AL137608) hypothetical protein [Homo sapiens]	emb CAB70840.1	93%	44	643
H2MAC06	874931	70	blastx.2	neutrophil gelatinase associated lipocalin [Homo sapiens]	emb CAA58127.1	31%	104	397
HWLRF06	875093	71	blastx.2	GCP170 [Homo sapiens]	dbj BAA23661.1	100%	170	763
HODDO41	875352	72	blastx.2	(AF064604) KE03 protein [Homo sapiens]	gb AAC17109.1	60%	23	373
HCHMQ74	875371	73	blastx.2	(AK001527) unnamed protein product [Homo sapiens]	dbj BAA91741.1	53%	3	383
HT3AI55	875682	74	blastx.2	(AK000219) unnamed protein product [Homo sapiens]	dbj BAA91018.1	80%	350	454
HMVBD68	876052	75	blastx.2	catalase [Campylobacter jejuni]	emb CAA59444.1	97%	3	440
HOCTA74	876487	76	blastx.2	propionyl-CoA carboxylase [Homo sapiens]	emb CAA32763.1	98%	4	504
						85%	207	103
						100%	65	292

HISET05	876686	77	blastx.2	(AJ270993) homeobox protein [Homo sapiens]	emb CAB65909.1	95%	511	849
HCRQM22	876696	78	blastx.2	hepatocyte nuclear factor-3/fork head homolog 11B [Homo sapiens]	gb AAC51129.1	66%	801	926
HLHTC92	877310	79	blastx.2	neuronal PAS2 [Homo sapiens]	gb AAB47250.1	84%	3	401
H2CAA49	879484	80	blastx.2	(AF053651) cellular apoptosis susceptibility protein [Homo sapiens]	gb AAC35297.1	97%	197	418
HETKQ94	880545	81	blastx.2	(AL132954) putative protein [Arabidopsis thaliana]	emb CAB75750.1	95%	142	201
HOFMO23	882466	82	blastx.2	(AF089745) FK506-binding protein [Homo sapiens]	gb AAC78853.1	32%	482	574
HNTNP58	882787	83	blastx.2	(AF118082) PRO1902 [Homo sapiens]	gb AAF22026.1 AF118094 21	100%	954	2108
HOFNY28	888480	84	blastx.2	AF-1 [Homo sapiens]	gb AAA16955.1	35%	53	838
HE8MQ01	889128	85	blastx.2	(AF118082) PRO1902 [Homo sapiens]	gb AAF22026.1 AF118094 21	23%	1556	2080
HE2RG21	891139	86	blastx.2	peptidylprolyl isomerase [Homo sapiens]	emb CAA37039.1	33%	1155	1298
HHENW77	894855	87	blastx.2	vacuolar proton-ATPase subunit M9.2	emb CAA75571.1	95%	14	499
						54%	14	499
						46%	14	454
						52%	194	499
						62%	2230	2391
						60%	2382	2480
						63%	18	476
						62%	416	658
						71%	2699	2490
						100%	59	553
						71%	99	338

HOFNU55	897344	88	blastx.2	[Homo sapiens] (AP000616) similar to RING-H2 finger protein RHA1a (AF078683) [Oryza sativa]	dbj BAA85438.1	70%	654	544
HE8TE40	897862	89	blastx.2	Rabin3 [Rattus norvegicus]	gb AAA67890.1	87% 93%	152 1086	1114 1532
HNTCH73	900546	90	blastx.2	bone morphogenetic protein 2B [Homo sapiens]	gb AAA51835.1	100%	195	1418
HHFBY53	902534	91	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	95% 22% 20% 22% 20%	6 837 801 833 836	128 956 932 940 955
HDPIE44	904763	92	blastx.2	(AF200706) UNC-84A [Caenorhabditis elegans]	gb AAF15883.1 AF2 00706_1	47% 39% 25% 42%	1852 170 1375 109	2418 313 1524 171
HHSAX10	904783	93	blastx.2	delta-9 desaturase [Gallus gallus]	emb CAA42997.1	71%	9	680
HPIAX83	906066	94	blastx.2	weakly similar to E. nidulans bimA gene product (SP:P17885) [Caenorhabditis elegans]	gb AAA81143.1	39% 37% 19% 22% 21% 24%	1167 588 1776 1716 1653 2274	2459 1025 2474 2186 2093 2540
HOFNG28	908746	95	blastx.2	CD59 GLYCOPROTEIN	sp O62680 CD59_PI G	54%	51	401

				PRECURSOR (MEMBRANE ATTACK COMPLEX 1 (PROTECTIN).					
HOF0B27	911947	96	blastx.2	(AL050283) hypothetical protein [Homo sapiens]	emb CAB43384.1	97%	640	1491	
						77%	380	745	
						42%	329	427	
HHBHJ45	913831	97	blastx.2	initiation factor 2 [Homo sapiens]	gb AAA67038.1	100%	11	1498	
HHPDV90	914163	98	blastx.2	(AF090942) PRO0657 [Homo sapiens]	gb AAF24054.1 AF0 90942 1	53%	1122	874	
HWMMQ4 7	915068	99	blastx.2	(AB029042) ATPase inhibitor precursor [Homo sapiens]	dbj BAA88422.1	100%	53	232	
						100%	1614	1754	
HBGNY08	915214	100	blastx.2	(AP000616) similar to: RING-H2 finger protein RHA1a (AF078683) [Oryza sativa]	dbj BAA85438.1	95%	423	364	
						100%	423	367	
						100%	423	367	
						100%	423	367	
						77%	423	343	
						90%	423	364	
						84%	421	347	
						44%	308	222	
						33%	309	229	
						35%	332	249	
HODGH45	917394	101	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	80%	819	938	
HWLKE58	917716	102	blastx.2	(AL031629) similar to RNA recognition motif. (aka RRM, RBD, or 1 1	emb CAA20980.2	52%	275	496	

HRADL40	919433	103	blastx.2	dodecenoyl-CoA delta-isomerase [Homo sapiens]	emb CAA81066.1	100%	37	942
HOFMP73	919895	104	blastx.2	cathepsin B [Homo sapiens]	gb AAC37547.1	85%	113	1129
HOFMS02	920253	105	blastx.2	ATPase subunit 6 [Phoca vitulina]	emb CAA45262.1	54%	156	386
HUVHD12	921707	106	blastx.2	inositol polyphosphate 4-phosphatase [Rattus norvegicus]	gb AAB01069.1	35% 30% 60%	187 687 43	492 953 102
HMVDQ4 1	922191	107	blastx.2	(AL137496) hypothetical protein [Homo sapiens]	emb CAB70771.1	98% 99%	384 2	809 385
HODGI03	922879	108	blastx.2	replication protein A 14kDa subunit [Homo sapiens]	gb AAA58350.1	100%	447	635
HODHD14	922955	109	blastx.2	unknown protein [Homo sapiens]	gb AAA88036.1	60%	22	174
HODDC03	925296	110	blastx.2	ORF4 [Rattus norvegicus]	emb CAA37647.1	40% 58% 50%	126 344 307	245 433 336
HVCAG04	925735	111	blastx.2	(AF034633) GPR39 [Homo sapiens]	gb AAC26082.1	100% 29%	1281 1364	781 1293
HCRCE02	925837	112	blastx.2	putative p150 [Homo sapiens]	gb AAC51269.1	47% 50% 31% 40%	1 709 329 876	489 867 607 971
HHERA91	926067	113	blastx.2	(AK000530) unnamed protein product [Homo sapiens]	dbj BAA91234.1	100%	2031	2399



HAGDL82	928396	114	blastx.2	sapiens] (AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	75% 75%	5 210	208 257
HWBDS34	930484	115	blastx.2	Similar to S.cerevisiae hypothetical protein L3111 (S59316) [Homo sapiens]	dbj BAA13405.1	99%	57	983
H6ESA39	933568	116	blastx.2	BCDNA:LD21720 PROTEIN.	sp Q9XZ25 Q9XZ25	47% 26%	623 14	1150 169
HPCOR06	933678	117	blastx.2	ORFII [Homo sapiens]	emb CAA36480.1	73% 62% 56% 60%	99 310 28 266	266 459 144 310
HTFNO06	933989	118	blastx.2	(AC009177) unknown protein [Arabidopsis thaliana]	gb AAF27013.1 AC0 09177_3	39%	95	505
HODFY08	935520	119	blastx.2	(AB012223) ORF2 [Canis familiaris]	dbj BAA25253.1	45%	79	447
HRACK27	935717	120	blastx.2	(AL133045) hypothetical protein [Homo sapiens]	emb CAB61372.1	97%	681	1283
HRACW30	940639	121	blastx.2	(AF113887) kappa 1 immunoglobulin light chain [Homo sapiens]	gb AAD29608.1	93%	79	786
HOFOC32	941969	122	blastx.2	placental protein Diff33 [Homo sapiens]	emb CAB09783.1	84%	84	1502
HTTDM15	942511	123	blastx	(AL033127) hypothetical protein	emb CAA21869.1	27% 20%	62 759	427 959

HOVAY63	944031	124	blastx.2	[Schizosaccharomyces pombe]			32%	965	1048
				L1 retroposon, a portion of its ORF2 sequence [Rattus norvegicus]	emb CAA43593.1		65%	583	488
							43%	229	125
							34%	492	376
HDPFY41	946502	125	blastx.2	(AL050294) hypothetical protein [Homo sapiens]	emb CAB43393.1		94%	624	2072
							88%	1984	2037
							52%	2039	2113
HICOPB92	948608	126	blastx.2	ORF2, encodes a reverse transcriptase homolog [Homo sapiens]	gb AAB60345.1		60%	99	182
							51%	2	106
							66%	257	310
							64%	169	243
HBJHO83	948708	127	blastx.2	envelope polypeptide [Mus musculus]	gb AAA37565.1		46%	177	365
							45%	64	174
							85%	2	61
HWME04 4	948719	128	blastx.2	(AF038963) RNA helicase [Homo sapiens]	gb AAD19826.1		99%	3	1343
HFXJA96	949001	129	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5		93%	40	135
HTLGV19	949574	130	blastx.2	human complement C1r [Homo sapiens]	gb AAA51851.1		46%	72	539
							36%	604	732
							25%	567	740
HMSAC18	950257	131	blastx.2	(AB023584) reduced expression in cancer [Homo sapiens]	dbj BAA88923.1		100%	29	919
HAPRB43	950475	132	blastx.2	(AF124522) tetraspan NET-2 [Homo sapiens]	gb AAD17317.1		100%	3	536

HCCMD55	956895	133	blastx.2	catalase [Campylobacter jejuni]	emb CAA59444.1	94%	225	115
HKADF15	960658	135	blastx.2	(AF179370) insulin-like growth factor binding protein 5 protease [Rattus norvegicus]	gb AAD52683.1 AF179370_1	94%	424	1551
						70%	113	499
						32%	9	155
HOGES55	961337	136	blastx.2	proline-rich protein [Mus musculus]	gb AAA53048.1	31%	515	1117
						33%	515	1117
						33%	645	1397
						33%	809	1117
						33%	1099	1452
HKZAJ14	961458	137	blastx.2	(AL133051) hypothetical protein [Homo sapiens]	emb CAB61378.1	27%	1099	1557
						100%	219	1028
HLHAE14	962362	138	blastx.2	unknown protein [Homo sapiens]	gb AAA88036.1	60%	1969	1805
HBCJN16	965190	139	blastx.2	calcyphosine [Homo sapiens]	emb CAA66609.1	38%	1820	1680
						99%	38	346
HCGAF29	965372	140	blastx.2	(AF083217) WD repeat protein WDR3 [Homo sapiens]	gb AAD45865.1 AF083217_1	97%	32	1660
						27%	473	940
						53%	2270	2308
						34%	2226	2312
						60%	2269	2313
						60%	2273	2317
						60%	2272	2316
						46%	2269	2307
						36%	2226	2315
						53%	2270	2314

HBAB02	967807	142	blastx.2	(AK000069) unnamed protein product [Homo sapiens]	dbj BAA90924.1	47%	1600	1665
HOCR01	968171	143	blastx.2	similar to D.melanogaster peroxidase(U11052) [Homo sapiens]	dbj BAA13219.1	33% 36% 30%	8 428 8	646 718 241
HDTIG18	968454	144	blastx.2	(AB017644) ubiquitin-conjugating enzyme E2 [Homo sapiens]	dbj BAA76544.1	100%	391	1011
HBLGD30	968949	145	blastx.2	preceruloplasmin (EC 1.16.3.1) [Homo sapiens]	gb AAA51976.1	100% 40% 41%	1 106 1183	2187 1512 2184
HFIHK04	969387	146	blastx.2	(AK000200) unnamed protein product [Homo sapiens]	dbj BAA91005.1	94%	306	151
HE8NQ16	970046	148	blastx.2	F20D12.3 gene product [Caenorhabditis elegans]	gb AAA81672.1	38% 36% 25% 25%	359 1259 2021 974	1099 1891 2653 1102
HOFMS34	973010	149	blastx	hPMSR6 [Homo sapiens]	gb AAA97460.1	59% 66%	324 552	536 605
HOF0B11	973505	150	blastx.2	15 KD SELENOPROTEIN PRECURSOR.	sp O60613 SE15_HUMAN	95%	18	503
HTLHN94	974667	151	blastx.2	(AB012955) KIP2 [Homo sapiens]	dbj BAA33584.1	99%	444	812
HLDRT31	975754	152	blastx.2	hepatocyte growth	gb AAA50165.1	90%	91	639

HWLHW8 6	975771	153	blastx.2	factor-like protein [Homo sapiens]	gb AAA35723.1	50%	100	579
				epithelial glycoprotein (EGP) precursor [Homo sapiens]		44%	100	579
HOFNM53	976051	154	blastx.2	(AL110276) hypothetical protein [Homo sapiens]	emb CAB53711.1	37%	498	1094
HDPSE86	976207	155	blastx	(AF086713) rasGAP- activating-like protein [Homo sapiens]	gb AAD09006.1	83%	757	1311
						91%	1	420
						96%	508	774
						83%	401	511
						30%	361	450
						42%	1	42
HHFOE18	976216	156	blastx.2	(AL117664) hypothetical protein [Homo sapiens]	emb CAB56034.1	52%	376	1275
						35%	14	139
HHFNH27	976968	157	blastx.2	Nascent polypeptide associated complex alpha subunit [Homo sapiens]	emb CAA56869.1	98%	26	589
						100%	3	26
HMMBZ8 1	977264	158	blastx.2	alternatively spliced product using exon 13A [Homo sapiens]	gb AAB49034.1	52%	545	369
HSLGF32	977704	159	blastx.2	(AL133063) hypothetical protein [Homo sapiens]	emb CAB61387.1	52%	2	250
HODFU73	978812	161	blastx.2	myeloid ecotropic viral integration site-1b	gb AAA85509.1	94%	371	652

HNBUA49	978998	162	blastx.2	[Mus musculus] (AF085356) putative RNA helicase [Homo sapiens]	gb AAD40191.1	97% 38%	365 130	1282 183
HVVDU73	979346	163	blastx.2	ladinin [Homo sapiens]	gb AAB58817.1	99%	53	1603
HHESX72	979468	164	blastx.2	(AK001665) unnamed protein product [Homo sapiens]	dbj BAA91821.1	96%	202	480
HOCYP88	979547	165	blastx.2	(AF035299) similar to GAP binding protein p62do [Homo sapiens]	gb AAB88182.1	100%	136	939
HOGDC64	979666	166	blastx.2	kinase A anchor protein [Homo sapiens]	emb CAA66000.1	100% 40% 45%	236 1 40	769 165 204
HSIEA14	980139	167	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	72% 70% 68%	613 783 667	482 673 620
HSPSY43	980269	168	blastx.2	alphaII spectrin [Rattus norvegicus]	emb CAA62350.1	100%	937	1659
HSXBBH24	981029	169	blastx.2	(AF181645) BcDNA.GH12144 [Drosophila melanogaster]	gb AAD55431.1 AF1 81645_1	44% 36% 28% 26% 31% 22% 35% 23%	301 1207 1684 1702 1609 1711 1819 1867	1263 2148 2040 2067 1896 2061 1962 2157
HOFAE61	981108	170	blastx.2	predicted using Genefinder; Similarity to E.coli guanosine-3',	emb CAB05030.1	59% 71% 50%	173 5 727	430 88 822

HCFOF82	981272	171	blastx.2	1 [Caenorhabditis elegans] (AL133558) hypothetical protein [Homo sapiens]	emb CAB63713.1	98%	2	901
HOCMT79	981309	172	blastx.2	similar to yeast Sec6p, Swiss-Prot Accession Number P32844; 1 1 norvegicus]	gb AAA85505.1	94% 96%	481 2	1413 481
HKAIEI03	981319	173	blastx.2	Wiskott-Aldrich Syndrome Protein [Mus musculus]	gb AAC52556.1	35% 39% 40% 55% 34%	392 233 407 306 288	6 6 300 253 211
HOCPO31	981593	174	blastx.2	(AF015037) endooligopeptidase A related protein; EOPA related protein [Oryctolagus cuniculus]	gb AAB99905.1	79%	381	812
HAOTG88	981606	175	blastx.2	No definition line found [Escherichia coli]	gb AAC43132.1	100%	217	2
HVCAH21	981768	176	blastx.2	(AF044956) NADH:ubiquinone oxidoreductase B22 subunit [Homo sapiens]	gb AAD42057.1 AF0 44956_1	100%	80	616
HFPCK56	981812	177	blastx.2	(AF099664) Cdc42 effector protein 4 [Homo sapiens]	gb AAD16299.1	88%	3	125

HAOSJ58	981859	178	blastx.2	(AJ271784) chromokinesin [Homo sapiens]	emb CAB75427.1	87%	24	482
HOPJT48	981862	179	blastx.2	(AP000616) similar to RING-H2 finger protein RHA1a (AF078683) [Oryza sativa]	dbj BAA85438.1	95%	321	250
						91%	318	247
						95%	316	245
						100%	350	285
						100%	349	284
						100%	348	283
						100%	345	280
						100%	347	282
						100%	346	281
						100%	342	277
						100%	344	279
						100%	343	278
						100%	340	275
						100%	339	274
						100%	341	276
						100%	336	271
						100%	338	273
						100%	337	272
						100%	335	270
						100%	333	268
						100%	334	269
						100%	330	265
						100%	331	266
						100%	332	267
						100%	327	262
						100%	328	263
						100%	329	264



HCFAV61	981914	180	blastx.2	(AK000541) unnamed protein product [Homo sapiens]			100%	324	259
							100%	325	260
							91%	313	242
							88%	318	241
							84%	316	239
							64%	318	217
							99%	54	1091
HOVJY54	982032	182	blastx.2	similar to cuticle collagen [Caenorhabditis elegans]	emb CAA91932.1		36%	593	156
							33%	763	578
							37%	763	635
							29%	1088	942
HE8MM52	982197	184	blastx.2	(AL023828) cDNA EST yk289g5.5 comes from this gene; cDNA EST 11 yk653f1.5 comes from this gene; cDNA EST EMBL:C07875 comes from th	emb CAA19455.1		48%	628	1137
							46%	121	552
HJBCC19	982465	185	blastx.2	(AK000516) unnamed protein product [Homo sapiens]	dbj BAA91222.1		99%	503	949
							90%	8	157
HODAA93	982618	186	blastx.2	(AJ224979) MTMR1 [Homo sapiens]	emb CAA12271.1		96%	63	737
							74%	698	790
HPSI74	982764	187	blastx.2	L6 [Homo sapiens]	gb AAA36158.1		100%	100	705
HCEHZ42	983008	188	blastx.2	unknown [murine herpesvirus 68]	gb AAB66420.1		32%	2124	3170
							38%	1167	1451
							38%	1167	1451

						38%	1167	1451
						38%	1167	1451
						38%	1167	1451
						32%	2127	2414
						39%	2140	2304
						35%	94	375
						35%	94	375
						35%	94	375
						37%	116	334
						37%	116	334
						37%	116	334
						37%	116	334
						34%	620	817
						34%	620	817
						34%	620	817
						34%	620	817
						34%	620	817
						37%	7	135
						37%	7	135
						38%	1234	1422
						38%	1234	1422
						38%	1234	1422
HDPVU15	983592	189	blastx.2	replication factor C, 37- kDa subunit [Homo sapiens]	gb AAB09785.1	100%	72	686
						100%	685	954
						100%	1025	1138
						100%	1216	1308
HT5GC28	984008	190	blastx.2	alpha subunit; forms heterodimer with NC2 alpha/Dr1 [Homo sapiens]	emb CAA65358.1	60%	34	423
						58%	248	421

HDABW5 0	984168	191	blastx.2	t-complex polypeptide 1 (AA 1-556) [Homo sapiens]	emb CAA37064.1	100%	185	451
HAQBH11	985043	192	blastx.2	(AJ243177) Xenopus RPA interacting protein alpha [Xenopus laevis]	emb CAB45690.1	42% 46% 46% 28% 35%	393 110 238 244 247	626 244 393 369 336
HMVAW4 2	985280	193	blastx.2	extensin-like protein [Zea mays]	emb CAA84230.1	28%	960	10
HAGDF03	985323	194	blastx.2	neuromedin U [Homo sapiens]	emb CAA53619.1	100%	169	690
HOPKI29	985401	195	blastx.2	(AF087135) F1FO-type ATPase subunit d [Homo sapiens]	gb AAC36338.1	100%	65	547
HAJCA11	985580	196	blastx.2	GTBP-ALT [Homo sapiens]	dbj BAA23673.1	98% 97%	394 2	1293 391
HWAHA1 1	986078	197	blastx.2	(AB031292) proteolipid protein 2 [Mus musculus]	dbj BAA83500.1	31%	134	511
HSAMI43	986158	198	blastx.2	(AF111423) chromosome condensation protein XCAP-G [Xenopus laevis]	gb AAD09819.1	54% 53%	14 14	1471 1387
HNFJH73	986165	199	blastx.2	erm [Homo sapiens]	emb CAA65246.1	100%	1	591
HNTCH03	986328	200	blastx.2	put. ORF [Homo sapiens]	emb CAA39297.1	48% 70%	103 651	363 680
HSUAA20	986744	201	blastx.2	replication protein A,	gb AAA36584.1	100%	2	1312

				70-kDa subunit [Homo sapiens]		100%	1315	1347
HSPAD08	986767	202	blastx.2	(AL031663) dJ461P17.6 (Major Epididymis-specific protein E4 1 1 sapiens)	emb CAB37641.1	100%	905	1054
HFKBA32	987018	203	blastx.2	(AL121740) hypothetical protein [Homo sapiens]	emb CAB57330.1	76% 83%	256 540	1092 743
HHFLU49	987071	204	blastx.2	(AF068749) sphingosine kinase [Mus musculus]	gb AAC61698.1	46%	278	718
HOENX16	987112	205	blastx.2	helix-loop-helix protein [Homo sapiens]	emb CAA69255.1	100%	368	850
HTFOW71	987165	206	blastx.2	(AF121862) sorting nexin 13 [Homo sapiens]	gb AAD27835.1 AF121862_1	96% 88%	38 3	400 53
HTTAG03	987262	207	blastx.2	SPIN protein [Homo sapiens]	emb CAA75163.1	94% 47% 41% 44% 36% 33% 37% 61%	57 81 663 492 801 516 195 1228	1289 476 1238 857 1061 812 428 1278

HNTNN89	987577	208	blastx.2	elongation factor 2 [Homo sapiens]	emb CAA35829.1	98%	110	547
HRADQ96	987636	209	blastx.2	(AF134726) NG23 [Homo sapiens]	gb AAD21821.1	77% 100%	543 2	713 115
HLDJC16	987808	210	blastx.2	3-oxoacyl-[acyl-carrier- protein] reductase (EC 1.1.1.100). [Escherichia coli]	dbj BAA35901.1	96% 100%	303 6	398 29
HCOPH23	987900	211	blastx.2	nucleoporin-like protein [Homo sapiens]	emb CAA61667.1	39%	159	761
HEEAQ78	988159	212	blastx.2	TBX2 [Homo sapiens]	gb AAA73861.1	94%	289	447
HOFNY16	988363	213	blastx.2	(AL110239) hypothetical protein [Homo sapiens]	emb CAB53690.1	99% 100%	164 144	475 236
HSLCX45	988441	214	blastx.2	(AB006572) RPB5 meidating protein [Homo sapiens]	dbj BAA34781.1	98%	106	1404
HLMJB09	988499	215	blastx.2	cDNA EST yk575f9.3 comes from this gene [Caenorhabditis elegans]	emb CAA94859.1	39% 34%	270 496	491 591
HOVEF60	988526	216	blastx.2	envelope protein [Homo sapiens]	gb AAA88027.1	75% 36%	377 11	598 298
HOGDR72	988536	217	blastx.2	RNA polymerase II transcription factor SIII	gb AAA75522.1	100%	62	415

HOCMF20	988556	218	blastx.2	p18 subunit [Homo sapiens]	emb CAA71143.1	99%	1	366
HAMHH2 6	988737	219	blastx.2	high mobility group protein 2a [Homo sapiens]	gb AAB40147.1	98%	429	728
HHFOX44	988904	220	blastx.2	MHC Class I region proline rich protein [Homo sapiens]	emb CAA00862.1	99% 52% 56% 28% 36% 31% 45%	153 308 804 67 88 637 48	587 907 956 222 318 789 107
HPWDE54	989029	221	blastx.2	binding protein [Homo sapiens]	emb CAB64449.1	97%	1	2127
HNOAX46	989183	222	blastx.2	(AJ252060) TRABID protein [Homo sapiens]	emb CAA67781.1	100%	49	789
HCQCB28	989280	223	blastx.2	Berg36 [Homo sapiens]	dbj BAA91131.1	60% 77% 57%	471 301 1148	292 167 1107
HOOJB32	989321	224	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA22572.1	100%	535	1173
HMWJJ35	989323	225	blastx.2	(AB007619) EBAG9 [Homo sapiens]	emb CAA75516.1	93% 100% 72%	312 551 260	410 607 346
HHFIA95	989396	226	blastx.2	Leu2 [Homo sapiens]	dbj BAA19546.1	92% 24% 47% 35%	120 279 1 5	1178 974 216 121

HSPSH36	989607	227	blastx.2	transcription factor ILF [Homo sapiens]	emb CAA43200.1	94%	77	247
HAAAAA25	989952	228	blastx.2	p67 myc protein [Homo sapiens]	dbj BAA01374.2	100%	250	282
HTEMJ16	990060	229	blastx.2	(AF151075) HSPC241 [Homo sapiens]	gb AAF36161.1 AF1 51075_1	100%	100	660
HWLAB90	990146	230	blastx.2	(AF067817) VAV-3 protein [Homo sapiens]	gb AAC79695.1	97%	361	618
HOSED43	990184	231	blastx.2	(AK001851) unnamed protein product [Homo sapiens]	dbj BAA91941.1	98%	2	652
						89%	622	813
						100%	2	790
HNODF50	990254	232	blastx.2	(AF222742) synaptic glycoprotein SC2 [Homo sapiens]	gb AAF32373.1 AF2 22742_1	100%	616	1155
						93%	187	528
						100%	116	181
HLWBV17	990255	233	blastx.2	(AF222742) synaptic glycoprotein SC2 [Homo sapiens]	gb AAF32373.1 AF2 22742_1	100%	282	542
						78%	123	206
						57%	26	88
HOCQH66	990435	234	blastx.2	collagen type VI, alpha 3 chain [Homo sapiens]	emb CAA36267.1	98%	43	2745
						43%	40	330
						40%	40	330
						45%	43	327
						46%	49	330
						44%	43	327
						47%	46	330
						48%	46	330
						45%	46	330
						46%	46	330
						43%	49	339
						44%	49	327
						41%	43	327

HOGDC67	990546	235	blastx.2	pyrroline-5-carboxylate reductase [Homo sapiens]	gb AAA36407.1	48%	85	330
HCDBO02	990609	236	blastx.2	TIP120 [Rattus norvegicus]	dbj BAA13432.1	97%	10	3258
HODGN92	990611	237	blastx.2	coded for by C. elegans cDNA yk38h3.5; coded for by C. elegans 1.1 [Caenorhabditis elegans]	gb AAA83581.1	66%	131	202
HPDRP30	990751	238	blastx.2	(AL122073) hypothetical protein [Homo sapiens]	emb CAB59248.1	37%	107	499
HBXFN09	990769	239	blastx.2	ORF 3 [Homo sapiens]	gb AAA58464.1	99%	1436	2098
HDTBO75	990913	240	blastx.2	(AF065391) ZIS1 [Homo sapiens]	gb AAD09746.1	42%	65	226
						71%	43	63
						100%	241	324
						39%	4	72
						45%	13	72
						32%	1	75
						36%	1	72
						33%	13	75
						21%	4	72



HELGN26	991014	241	blastx.2	(AF123653) FEZ1 [Homo sapiens]	gb AAD23834.1 AF1 23653_1	47% 52% 38%	192 32 171	902 181 470
HODCU15	991048	242	blastx.2	(AF213822) hypothetical protein [Zymomonas mobilis]	gb AAF23786.1 AF2 13822_1	42% 56% 27%	1104 1552 1747	1550 1710 1929
HOGDI51	991268	243	blastx.2	(AF007872) torsinB [Homo sapiens]	gb AAC51733.1	100% 92% 69%	238 607 803	492 873 940
HLWAF02	991516	244	blastx.2	(AK001371) unnamed protein product [Homo sapiens]	dbj BAA91655.1	100%	192	449
HRKPA16	991654	245	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	76%	263	24
HPDQX94	991761	246	blastx.2	microsomal glutathione S-transferase 2 [Homo sapiens]	gb AAC51768.1	100%	210	650
HEAAY09	992678	247	blastx.2	TSC-22 [Homo sapiens]	dbj BAA07598.1	96%	40	333
HPDRH78	992780	248	blastx.2	(AK000474) unnamed protein product [Homo sapiens]	dbj BAA91189.1	100% 79%	598 933	903 1079
HODFO57	992973	250	blastx.2	(AF176524) F-box protein FBL10 [Mus musculus]	gb AAF09133.1	67%	8	811
HOCPP44	993380	251	blastx.2	(AF151075) HSPC241 [Homo sapiens]	gb AAF36161.1 AF1 51075_1	99%	157	540
HPAMU38	993403	252	blastx.2	cDNA EST	emb CAB04720.1	48%	111	407

					yk269g12.5 comes from this gene; cDNA EST EMBL:D27364.1 comes from this gene; cDNA EST EMBL:D36272 comes fr			30%	450	803 91
HNGGK47	993602	253	blastx.2	(AF126163) HHLA3 protein [Homo sapiens]	gb AAD33288.1 AF126163.1		78%	277		372
HODGN51	993754	254	blastx.2	putative p150 [Homo sapiens]	gb AAC51261.1		64%	124	124	549
							65%	77	77	205
							48%	3	3	134
							69%	545	545	613
HODCT60	993806	255	blastx.2	(AK002129) unnamed protein product [Homo sapiens]	dbj BAA92096.1		56%	239	239	382
							50%	624	624	671
HAQBV81	993918	256	blastx.2	putative [Rattus norvegicus]	emb CAA52297.1		43%	3	3	695
HDTGF49	993931	257	blastx.2	(AK002081) unnamed protein product [Homo sapiens]	dbj BAA92074.1		87%	1073	1073	1531
HOGBN62	994134	258	blastx.2	(AF132952) CGI-18 protein [Homo sapiens]	gb AAD27727.1 AF132952.1		95%	155	155	295
							95%	12	12	155
							43%	421	421	558
HSKGR42	994234	259	blastx.2	(AK000741) unnamed protein product [Homo sapiens]	dbj BAA91354.1		73%	147	147	536
							96%	1	1	153
							56%	412	412	528
							51%	413	413	499
							34%	291	291	404
							28%	273	273	377

										28%	316	468
										32%	291	437
HOEBQ85	994356	260	blastx.2	(AL117435) hypothetical protein [Homo sapiens]				emb CAB55923.1		97%	3	362
HOPJG01	994536	261	blastx.2	creatine kinase B [Homo sapiens]				emb CAA33389.1		100%	1	1134
HKBAK06	994596	262	blastx.2	Cks1 protein homologue [Homo sapiens]				emb CAA38702.1		100% 81%	231 67	410 144
HKGCN61	994664	263	blastx.2	NifU-like protein [Homo sapiens]				gb AAC50885.1		100%	169	531
HFOYT37	994776	265	blastx.2	ribosomal protein [Homo sapiens]				dbj BAA03400.1		100%	85	513
HOFNL18	994874	266	blastx.2	(AL031432) dJ465N24.1 (PUTATIVE novel protein similar to predicted yeast and worm proteins) [Homo sapiens]				emb CAB37991.1		84%	43	339
HOFNT57	994954	267	blastx.2	phosphate cyclase [Homo sapiens]				emb CAA72364.1		98% 93%	273 124	1157 270
HCBMT45	994993	268	blastx.2	lin-10 protein homolog [Rattus norvegicus]				gb AAB51383.1		96%	46	1311

HATDZ56	995200	269	blastx.2	(AL031668) dJ64K7.2 (eukaryotic translation initiation factor 2, subunit 2 (beta, 38kD )) [Homo sapiens]	emb CAB43741.1	100%	156	1154
HOCQI44	995229	270	blastx.2	(AL050348) dJ447F3.2 (ubiquitin-conjugating enzyme E2 H10) [Homo sapiens]	emb CAB66118.1	92%	8	520
HNOJG43	995562	271	blastx.2	alpha 4 protein [Homo sapiens]	emb CAA70119.1	99%	73	981
HSPSB95	995590	272	blastx.2	proteasome subunit HsN3 [Homo sapiens]	dbj BAA05647.1	99%	47	838
HCORG29	995806	273	blastx.2	SRp30c [Homo sapiens]	gb AAA93069.1	100%	100	762
HCRNO02	995894	274	blastx.2	N8 GENE PRODUCT LONG ISOFORM, N8L PROTEIN=D52 1 HK4A1].	sp G1488414 G14884 14	74% 63%	33 2	149 34
HCBOI79	996247	275	blastx.2	(AK000857) unnamed protein product [Homo sapiens]	dbj BAA91400.1	80% 100%	99 419	506 637
HVCAB73	996337	276	blastx.2	NF45 protein [Homo sapiens]	gb AAA20993.1	94% 70%	90 1175	1307 1297
HSDJH04	996619	277	blastx.2	RNA polymerase II subunit [Homo sapiens]	gb AAA91459.1	100%	219	419
HSON18	996804	278	blastx.2	(AB030654) AP-4 clathrin adaptor-related complex sigma4 subunit [Homo sapiens]	dbj BAA82970.1	100%	1	222

HHEHF49	996874	279	blastx.2	L-lactate permease [Escherichia coli]	gb AAA03583.1	91%	770	222
HCHCF36	996903	280	blastx.2	rac protein kinase-beta [Homo sapiens]	gb AAA36585.1	96%	1	456
HAHCK58	997127	281	blastx.2	(AK001138) unnamed protein product [Homo sapiens]	dbj BAA91517.1	98%	1	228
HETIJ06	997165	282	blastx.2	(AF152097) CGI-05 protein [Homo sapiens]	gb AAD34147.1 AF1 52097_1	97%	218	352
HAPOE30	997595	283	blastx.2	nuclear protein SA-1 [Homo sapiens]	emb CAA99731.1	100% 88%	244 11	759 244
HRGDC33	997862	284	blastx.2	C13F10.7 gene product [Caenorhabditis elegans]	gb AAC47967.1	34% 44%	301 301	735 648
HMTMB9 1	997873	285	blastx.2	(AC004858) U1 small ribonucleoprotein 1SNRP homolog; match to PID:g4050087 [Homo sapiens]	gb AAF19255.1 AC0 04858_3	100% 41%	1037 487	1174 555
HFAAD07	998059	286	blastx.2	(AJ132948) rfg7 protein [Homo sapiens]	emb CAB55313.1	97% 97%	274 32	957 298
HE8TG67	998517	287	blastx.2	product is related to clathrin-associated protein. [Homo sapiens]	dbj BAA09762.1	97% 97%	1226 502	1360 618
HACNC39	998533	288	blastx.2	weak similarity to Arabidopsis thaliana ubiquitin-like protein 8 [Caenorhabditis elegans]	gb AAB42266.1	80%	162	380

HCOQP78	998901	289	blastx.2	(AB008927) neuropsin type2 [Homo sapiens]	dbj BAA82666.1	100%	75	989
HCGMA67	998905	290	blastx.2	rab8 [Canis familiaris]	emb CAB56776.1	100%	47	664
HSKHK19	998968	291	blastx.2	(AC004890) similar to HUB1; similar to BAA24380 (PID:g2789430) [Homo sapiens]	gb AAD45825.1 AC004890_2	98% 38% 54% 70%	2 566 1095 558	466 721 1160 587
HAGGR59	999124	292	blastx.2	histone H1-I [Volvox carteri]	gb AAA74723.1	36%	270	596
HOPKS83	999148	293	blastx.2	(AF026124) schwannoma-associated protein [Mus musculus]	gb AAC73069.1	93%	425	1894
HE8CY70	999157	294	blastx.2	SEP PROTEIN (FRAGMENT).	sp Q15352 Q15352	100% 92% 66% 48%	691 32 3 635	1368 691 128 706
HPCTI53	999243	295	blastx.2	(AJ250562) tetraspanin protein [Homo sapiens]	emb CAB65594.1	88% 100%	34 474	546 779
HOPKN50	999313	296	blastx.2	(AF017790) retinoblastoma-associated protein HEC [Homo sapiens]	gb AAB80726.1	95%	152	1702
HAPAI17	999778	297	blastx.2	(AK001832) unnamed protein product [Homo sapiens]	dbj BAA91931.1	97%	2	115
HHAUV59	999808	298	blastx.2	p116Rip [Mus musculus]	gb AAB18198.1	79% 67% 21%	95 547 1454	1903 801 1669

HTXLL31	1000315	299	blastx.2	(AK001770) unnamed protein product [Homo sapiens]	dbj BAA91897.1	36% 27% 26% 39%	663 666 4 481	992 1379 645 621
HDPUH64	1000339	300	blastx.2	CRAg protein [Drosophila melanogaster]	emb CAA76938.1	42% 66% 65%	8 525 475	598 692 534
HTTHS93	1000424	301	blastx.2	(AL117183) conserved hypothetical protein [Schizosaccharomyces pombe]	emb CAB54870.1	25% 36%	55 755	720 994
HMVCG79	1000582	302	blastx.2	(AJ387747) sialin [Homo sapiens]	emb CAB62540.1	100%	3	854
HODHK20	1000669	303	blastx.2	(AF176555) A-kinase anchoring protein 220 [Homo sapiens]	gb AAF07045.1 AF176555_1	94%	76	627
HCHMO53	1000875	304	blastx.2	(AK000462) unnamed protein product [Homo sapiens]	dbj BAA91181.1	41%	296	556
HFKKG84	1001066	305	blastx.2	(AF047002) transcriptional coactivator ALY [Homo sapiens]	gb AAD09608.1	98%	1	666
HOFMT20	1001333	306	blastx.2	(AK000541) unnamed protein product [Homo sapiens]	dbj BAA91241.1	48%	40	237
HPAMB04	1001695	307	blastx.2	17-kDa protein [Homo sapiens]	gb AAA36038.1	99%	127	621
HODEK48	1001901	308	blastx.2	pol [porcine endogenous retrovirus]	emb CAA76582.1	41% 33%	398 25	721 423

HVVCB28	1001954	309	blastx.2	S19 ribosomal protein [Homo sapiens]	gb AAA89070.1	100%	373	807
HCOOS01	1002071	310	blastx.2	proliferation associated gene (pag) [Homo sapiens]	emb CAA48137.1	100%	105	701
HDACA35	1002096	311	blastx.2	(AK001496) unnamed protein product [Homo sapiens]	dbj BAA91724.1	73%	23	652
HOVDG59	1002328	312	blastx.2	(AK001610) unnamed protein product [Homo sapiens]	dbj BAA91787.1	100% 28%	13 40	639 588
HTJAD78	1002459	313	blastx.2	immunoglobulin gamma-2 heavy chain [Homo sapiens]	emb CAB58438.1	98%	64	1041
HCDCF69	1002468	314	blastx.2	lysyl hydroxylase [Homo sapiens]	gb AAA60116.1	98%	353	508
HPTTW90	1002479	315	blastx.2	Huntington's Disease (HD) gene [Homo sapiens]	emb CAA93701.1	99%	3	356
HSUBG36	1002492	316	blastx.2	snRNP E protein (AA 1-92) [Homo sapiens]	emb CAA31007.1	100%	67	342
HODFU72	1002527	317	blastx.2	(AB022660) SET- binding protein (SEB) [Homo sapiens]	dbj BAA82444.1	32%	57	689
HCNSF57	1002545	318	blastx.2	immunoglobulin lambda light chain [Homo sapiens]	emb CAA40940.1	96%	134	826
HODJU13	1002546	319	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	85%	2	106



HODIL25	1002551	320	blastx.2	nuclear protein, NP220 [Homo sapiens]	dbj BAA11748.1	99%	207	1556
HUVHS56	1002563	321	blastx.2	(AF097441) phenylalanine-tRNA synthetase [Homo sapiens]	gb AAC83802.1	100%	174	755
HPMJQ18	1002565	322	blastx.2	unnamed protein product [unidentified]	emb CAB69299.1	91%	407	823
HLHCI46	1002591	323	blastx.2	folate-binding protein precursor [Homo sapiens]	gb AAA35822.1	53%	209	247
HAOSD18	1002607	324	blastx.2	homologue to elongation factor 1- gamma from A.salina [Homo sapiens]	emb CAA45089.1	100%	153	923
HACNG47	1002610	325	blastx.2	ribosomal protein L37a [Homo sapiens]	gb AAA60280.1	100%	86	361
HOPJX95	1002729	326	blastx.2	RPS16 [Homo sapiens]	gb AAA60583.1	100%	244	681
HSCLR05	1002807	327	blastx.2	HKR-T1 [Homo sapiens]	gb AAB24264.2	58%	3	176
						42%	3	281
						51%	3	215
						41%	591	659
HVVAO74	1002811	328	blastx.2	clathrin light-chain A [Homo sapiens]	gb AAA59505.1	100%	178	831
HVV BK18	1003155	330	blastx.2	proteasome subunit HsC7-1 [Homo sapiens]	dbj BAA05646.1	100%	323	925
HSCLM55	1003224	332	blastx.2	(AC004983) similar to PID:g3877944 [Homo sapiens]	gb AAD15546.1	100%	28	768

HETJU23	1003706	333	blastx.2	(AL133630) hypothetical protein [Homo sapiens]	emb CAB63754.1	99% 99% 73% 100% 28% 26% 35%	881 504 64 373 878 1121 343	1477 881 513 507 1084 1327 459
HNOKB73	1004480	334	blastx.2	(AF026692) frpHE [Homo sapiens]	gb AAC04617.1	93%	18	515
HODFB06	1004583	335	blastx.2	(AB012223) ORF2 [Canis familiaris]	dbj BAA25253.1	41% 51% 63% 51% 70%	362 3 135 265 200	760 143 191 360 259
HODJA76	1004619	336	blastx.2	(AF113685) PRO0974 [Homo sapiens]	gb AAF29584.1 AF1 13685 1	56% 38%	171 277	293 453
HODJY60	1004625	337	blastx.2	putative [Homo sapiens]	gb AAC37567.1	100%	141	683
HODEF10	1004627	338	blastx.2	(AB005878) BYJ15 [Nicotiana tabacum]	dbj BAA21615.1	69%	10	135
HODFB03	1004631	339	blastx.2	DNA primase (p58 subunit) [Homo sapiens]	emb CAA52378.1	90%	1	789
HPMLN08	1004632	340	blastx.2	(AF027728) kinesin- related protein [Xenopus laevis]	gb AAC60300.1	25% 26% 24% 23%	518 135 524 524	1165 533 1051 1060
HODEH08	1004633	341	blastx.2	(AK001410) unnamed protein product [Homo sapiens]	dbj BAA91675.1	87%	22	369

HEGBF25	1004635	342	blastx.2	(AF069736) PCAF associated factor 65 beta [Homo sapiens]	gb AAC39906.1	98%	165	758
HODJB51	1004643	343	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	52%	405	142
HODEC38	1004648	344	blastx.2	(AJ010089) GANP protein [Homo sapiens]	emb CAB52687.1	97% 52% 62% 87%	68 1993 2055 2030	208 2175 2150 2053
HODIQ24	1004660	345	blastx.2	(AK001892) unnamed protein product [Homo sapiens]	dbj BAA91965.1	100%	3	236
HVVDD56	1004887	346	blastx.2	gpStat50 [Homo sapiens]	emb CAA57684.1	97% 66%	435 1204	1238 1245
HTHDV01	1004950	347	blastx.2	c-fos protein [Homo sapiens]	gb AAA52471.1	100%	153	1292
HVVDJ95	1005153	348	blastx.2	Ral guanine nucleotide dissociation stimulator [Homo sapiens]	gb AAA52360.1	80%	185	400
HODIY29	1005236	349	blastx.2	DNA-binding protein 5 - human	pir S26650 S26650	97% 89% 57% 59% 53% 52% 58% 48% 43% 65%	1 13 1 4 19 4 4 4 1 4	963 963 453 453 453 444 408 453 453 276

[illegible]

					sapiens]				47%	158	403
HOOJT92	1006215	358	blastx.2	(AC007055) unknown [Homo sapiens]	gb AAD31938.1 AC0 07055 3			37%	105	377	
HNORE03	1006250	359	blastx.2	(AK000927) unnamed protein product [Homo sapiens]	dbj BAA91430.1			27%	666	773	
HPCTS21	1006317	360	blastx.2	(AE001373) predicted secreted protein [Plasmodium falciparum]	gb AAC71813.1			34%	323	418	
								97%	44	172	
								100%	4	669	
								27%	237	1049	
								22%	177	1187	
HFATL31	1006399	361	blastx.2	light chain 3 subunit of microtubule-associated proteins 1A and 1B [Rattus norvegicus]	gb AAA20645.1			82%	146	505	
HE2JE77	1006445	362	blastx.2	(AF078848) BUP [Homo sapiens]	gb AAD44480.1			100%	2	328	
HCBNX87	1006470	363	blastx.2	(AL137735) hypothetical protein [Homo sapiens]	emb CAB70899.1			99%	1	420	
HNSTDJ68	1006483	364	blastx.2	l(3)mbl protein homolog [Homo sapiens]	gb AAC69438.1			64%	3	626	
								41%	628	1410	
								44%	3	533	
								40%	201	611	

HTRAA05	1006512	365	blastx.2	heat shock protein [Drosophila melanogaster]	emb CAA30276.1	60%	631	840
HMTAL96	1006635	366	blastx.2	ras-like protein [Homo sapiens]	gb AAA36547.1	98%	90	515
HDTJP21	1006858	367	blastx.2	(AF090942) PRO0657 [Homo sapiens]	gb AAF24054.1 AF09042_1	67% 73%	17 126	136 215
HISEQ81	1006943	368	blastx.2	(AF009668) polypeptide [multiple sclerosis associated retrovirus]	gb AAB66528.1	83% 70% 87%	247 435 514	17 235 395
HODFH02	1006953	369	blastx.2	(AK002129) unnamed protein product [Homo sapiens]	dbj BAA92096.1	74% 52%	346 426	438 488
HOCPP18	1007230	370	blastx.2	(AF150100) small zinc finger-like protein [Homo sapiens]	gb AAD40006.1 AF150100_1	100%	305	571
HODFP91	1007941	371	blastx.2	SpZ12-1 [Strongylocentrotus purpuratus]	gb AAA85705.1	27%	69	806
H6EDU06	1007976	372	blastx.2	(AF151894) CGI-136 protein [Homo sapiens]	gb AAD34131.1 AF151894_1	99%	75	449
HPCRD26	1008013	373	blastx.2	predicted using Genefinder; Similarity to Yeast mitochondrial 11 yk432a4.3 comes	emb CAB02879.1	35% 44%	423 1220	1229 1294

HSIEH63	1008027	374	blastx.2	from this gene; cDNA EST yk432a4 (AF007791) secreted cement gland protein XAG-2 homolog [Homo sapiens]	gb AAC77358.1	65%	87	554
HPASD51	1008071	375	blastx.2	PDI (E.C.5.3.4.1) [Bos taurus]	gb AAA30690.1	33%	81	752
HCOQH27	1008154	376	blastx.2	IEF SSP 9502 [Homo sapiens]	gb AAA65201.1	100%	131	1315
HCOPZ14	1008179	378	blastx.2	guanylate kinase [Homo sapiens]	gb AAC37598.1	84%	889	1023
HODEC78	1008299	379	blastx.2	bicaudal-D [Homo sapiens]	gb AAB94805.1	94% 97% 40% 72% 20% 35% 21% 25% 39%	379 1203 319 1351 328 1191 328 856 328	1230 1343 744 1470 1188 1343 792 1056 396
HODEF29	1008304	380	blastx.2	(AB005878) BYJ15 [Nicotiana tabacum]	dbj BAA21615.1	80% 22%	38 202	133 330
HODEF78	1008314	382	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	93%	3	101
HODEL83	1008324	383	blastx.2	pol gene protein; Xxx [Homo sapiens]	gb AAA88026.1	76%	132	407
HHPH76	1008325	384	blastx.2	(AF019386) heparan sulfate 3-O- sulfotransferase-1	gb AAB84388.1	100%	286	1206

					precursor [Homo sapiens]					
HBGBE52	1008326	385	blastx.2		T2 [Mus musculus]		emb CAA48048.1	29%	782	408
HBQAB30	1008327	386	blastx.2		alternatively spliced [Homo sapiens]		gb AAA35654.1	33%	661	407
HLHCB31	1008332	387	blastx.2		matrix metalloproteinase, MT2MMP [Homo sapiens]		dbj BAA13071.1	93%	24	737
HPFDV51	1008335	388	blastx.2		(AK000385) unnamed protein product [Homo sapiens]		dbj BAA91131.1	97%	1	558
HODEG13	1008337	390	blastx.2		unknown protein [Homo sapiens]		gb AAA88038.1	66%	62	217
								69%	3	71
								65%	2	214
								66%	183	341
								67%	341	478
HHPFK16	1008345	391	blastx.2		Krueppel-related DNA-binding protein [Homo sapiens]		gb AAA52689.1	79%	166	405
								65%	387	470
HARAL81	1008349	392	blastx.2		(AF090894) PRO0113 [Homo sapiens]		gb AAF24018.1 AF090894 1	55%	217	104
HFTAU42	1008350	393	blastx.2		(AK000385) unnamed protein product [Homo sapiens]		dbj BAA91131.1	55%	323	216
								59%	1282	1106
								55%	1115	990
								54%	1113	1051
HETDA81	1008358	394	blastx.2		IDN4-GGTR14 PROTEIN.		sp Q9Y6Y5 Q9Y6Y5	88%	3	110
								42%	221	262



HODEI92	1008359	395	blastx.2	(AF062006) orphan G protein-coupled receptor HG38 [Homo sapiens]	gb AAC28019.1	45%	1	306
HODEG86	1008379	397	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	55% 51%	236 424	400 546
HODFA57	1008396	398	blastx.2	retrovirus-related pol polyprotein pseudogene - human 1	pir A26718 A26718	36% 58%	102 17	596 67
HODFB31	1008401	399	blastx.2	(AL021768) ATP binding protein-like [Arabidopsis thaliana]	emb CAA16931.1	52%	1	261
HTEMP79	1008406	400	blastx.2	(AJ223782) CDC10 [Mus musculus]	emb CAA11547.1	95% 51% 94%	374 136 625	628 375 678
HODEI59	1008423	401	blastx.2	(AJ237734) ribophorin II [Homo sapiens]	emb CAB54801.1	100% 100% 97% 39% 30%	296 1404 1270 1876 1145	1273 1859 1404 1959 1279
HODEF94	1008429	402	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	100%	2	85
HPFCZ53	1008445	403	blastx.2	(AF176818) transcription factor AP-2 [Silurana tropicalis]	gb AAD53289.1 AF176818_1	79% 93%	296 3	769 296
HWACN71	1008764	404	blastx.2	(AF105261) natural killer cell receptor 2B4 [Homo sapiens]	gb AAD32538.1 AF105261_1	100%	174	1268
HOFMU69	1009017	405	blastx.2	(AF077038) unc-50	gb AAD27771.1 AF0	97%	375	1151

						related protein homolog [Homo sapiens]	77038_1			
HETBR71	1009343	407	blastx.2			(AL049610) dJ1055C14.1 (transcription elongation factor A (SII)-like 1) [Homo sapiens]	emb CAB55700.1	99%	182	658
HE2ES17	1009349	408	blastx.2			CDV-1R protein [Mus musculus]	emb CAA71519.1	89%	3	914
HELHM06	1009362	409	blastx.2			pre-mRNA splicing factor [Homo sapiens]	gb AAA36649.1	85%	56	349
HE2ES61	1009388	411	blastx.2			(AC005034) gc-rich sequence dna-binding factor [Homo sapiens]	gb AAC82536.1	100%	555	427
HE2SO43	1009398	412	blastx.2			protein Htf9C [Mus musculus]	emb CAA39515.1	74%	73	390
HLHCI07	1009403	413	blastx.2			(AL031985) dJ228H13.1 (similar to Ribosomal protein L21e) 1	emb CAB46381.1	75%	127	8
HTTBR65	1009414	414	blastx.2			E1A-F [Homo sapiens]	dbj BAA02234.1	100%	55	231
HPFCV71	1009453	415	blastx.2			(AK002129) unnamed protein product [Homo sapiens]	dbj BAA92096.1	60%	449	622
HCABR46	1009479	416	blastx.2			BST-2 [Homo sapiens]	dbj BAA05679.1	88%	127	423
HCRCB80	1009482	417	blastx.2			OTK27 [Homo sapiens]	dbj BAA23363.1	100%	96	479
HPMLW78	1009833	418	blastx.2			E2A/PRL fusion	gb AAA36764.1	99%	1	606

HODJX27	1009854	420	blastx.2	protein [Homo sapiens] (AJ005324) glutamate permease [synthetic construct]	emb CAA06471.1	90%	1	123
HODJV85	1009857	421	blastx.2	ribosomal protein [Homo sapiens]	gb AAA36589.1	77% 35%	366 505	205 416
HOOJO38	1009918	422	blastx.2	ribosomal protein L14 [Homo sapiens]	dbj BAA13443.1	98%	1	603
HAOSI69	1009949	423	blastx.2	bcl-1 [Homo sapiens]	gb AAA58392.1	100%	271	1155
HSDIY67	1010157	424	blastx.2	hypoxanthine (guanine) phosphoribosyltransfer ase [Cricetus longicaudatus]	emb CAA42198.1	69%	60	689
HSDZM65	1010299	425	blastx.2	(AJ010953) putative Ca <sup>2+</sup> -transporting ATPase [Homo sapiens]	emb CAA09425.1	100%	2	337
HPDOC39	1010400	426	blastx.2	(AB009282) cytochrome b5 [Homo sapiens]	dbj BAA23735.1	99%	171	608
HE2PS15	1010525	427	blastx.2	(AF054175) mitochondrial proteolipid 68MP homolog [Homo sapiens]	gb AAC39909.1	100%	63	236
HTTKH22	1010596	428	blastx.2	weak similarity to	emb CAA86663.1	38%	887	1435

					microtubule associated proteins; cDNA EST 1 1 EMBL:D37339 comes from this gene; cDNA EST EMBL:D6742				32%	1442	1561
									27%	692	949
HNOJG33	1010698	429	blastx.2	SAS [Homo sapiens]	gb AAC39524.1				98%	590	1207
									68%	1203	1274
									100%	1246	1278
HPDVK48	1011090	430	blastx.2	AZ-1 [Mus musculus]	dbj BAA19002.1				82%	236	730
									77%	1100	1630
									82%	735	1100
									70%	1	243
									23%	200	775
									23%	1100	1603
									34%	753	1103
									25%	203	769
									29%	1148	1612
									26%	1160	1612
									27%	284	775
									27%	1091	1600
									31%	747	1091
									19%	302	709
									27%	750	1085
									27%	738	1094
									30%	747	1097
									26%	239	727
									27%	660	1088
									22%	747	1085
									33%	750	1007

HNORJ10	1011186	431	blastx.2	hypoxia-inducible factor 1 alpha [Homo sapiens]	gb AAC50152.1	20%	780	1331
						23%	735	1061
						25%	305	691
						22%	750	1106
						27%	413	730
						28%	413	730
						42%	151	249
						32%	747	938
						31%	106	246
						23%	401	673
						25%	533	706
						24%	97	273
						99%	30	1628
						54%	120	152
HPDRG92	1011209	432	blastx.2	2-oxoglutarate dehydrogenase precursor [Homo sapiens]	dbj BAA01393.1	82%	7	234
						73%	237	326
						35%	1	60
HOFMQ81	1011303	433	blastx.2	unnamed protein product [Bos taurus]	emb CAA71771.1	66%	152	541
						66%	97	141
HOFNF27	1011315	434	blastx.2	cox sackie and adenovirus receptor protein [Homo sapiens]	emb CAA68868.1	89%	60	623
HOFND52	1011316	435	blastx.2	interferon alpha /beta receptor [Homo sapiens]	emb CAA61914.1	43%	240	533
						44%	59	205
HOFNL96	1011321	436	blastx.2	GM2-activator protein [Homo sapiens]	emb CAA43408.1	49%	72	551
						43%	28	123
HOFNF53	1011332	437	blastx.2	(AF039584) decay	gb AAC77439.1	46%	62	883

				accelerating factor soluble-form precursor; CD55 [Rattus norvegicus]				41%	1155	1706
								28%	161	784
								32%	880	1101
								75%	99	143
HOFMU61	1011360	438	blastx.2	(AJ009698) embigin protein [Rattus norvegicus]		emb CAA08796.1		60%	377	1249
HOFOF35	1011499	439	blastx.2	(AF061738) leucine aminopeptidase [Homo sapiens]		gb AAD17527.1		86%	88	582
								88%	602	736
								82%	20	88
								25%	52	450
								90%	576	605
HULFJ37	1011537	440	blastx.2	midkine [Homo sapiens]		dbj BAA01457.1		100%	124	552
HOFME75	1011607	441	blastx.2	collagen binding protein 2 [Homo sapiens]		dbj BAA11829.1		93%	224	970
HOPKO74	1011608	442	blastx.2	collagen binding protein 2 [Homo sapiens]		dbj BAA11829.1		99%	229	1482
HCBBA51	1011755	443	blastx.2	(AF077045) ATP synthase epsilon chain [Homo sapiens]		gb AAD27778.1 AF0 77045_1		100%	114	266
HDHEB13	1011773	444	blastx.2	type X collagen [Bos taurus]		emb CAA37624.1		42%	202	942
								42%	235	942
								52%	229	534
								49%	229	537
								50%	202	537
								49%	232	549
								47%	235	537

								45%	229	534
								45%	229	549
								49%	235	537
								49%	232	537
								45%	199	534
								48%	211	537
								49%	235	537
								49%	235	534
								47%	226	537
								45%	235	534
								44%	226	534
								42%	202	534
								35%	235	750
								45%	235	537
								34%	235	750
								42%	232	534
								40%	202	549
								48%	283	537
								32%	53	277
								50%	50	130
								31%	47	277
HDTMG36	1011821	445	blastx.2	(AJ271158) DAPI protein [Rattus norvegicus]	emb CAB71156.1	91%	75	248		
HVVCJ38	1011830	446	blastx.2	CLC-7 chloride channel protein [Homo sapiens]	emb CAA91556.1	100%	20	817		
HPAMY22	1011840	447	blastx.2	scleraxis=basic helix- loop-helix transcription factor [mice, embryos,	gb AAB34266.1	79%	4	180		

					Peptide, 207 aa] [Mus sp.]				
HE9CP86	1011847	448	blastx.2		(AF161499) HSPC150 [Homo sapiens]	gb AAF29114.1 AF1 61499_1	100%	137	727
HPDOU46	1011883	449	blastx.2		(AF117582) calyphosine-like protein [Manduca sexta]	gb AAF16704.1 AF1 17582_1	52%	72	692
HFCDW73	1011901	450	blastx.2		(AK000376) unnamed protein product [Homo sapiens]	dbj BAA91124.1	94%	6	425
HOVEB13	1011919	451	blastx.2		(AL117452) hypothetical protein [Homo sapiens]	emb CAB55934.1	99%	96	905
HPAMS93	1011948	452	blastx.2		TB1 [Homo sapiens]	gb AAA03587.1	97%	125	1105
HCRBN71	1011966	453	blastx.2		unknown [Saccharomyces cerevisiae]	gb AAA79999.1	40%	64	420
HCRNC60	1012005	454	blastx.2		tropomyosin [Homo sapiens]	gb AAA36771.1	81% 91% 31% 28% 27% 24% 22%	769 1202 796 766 766 925 1238	1236 1519 1245 1257 1218 1212 1459
HSPSJ24	1012064	455	blastx.2		IFN-alpha responsive transcription factor [Homo sapiens]	gb AAA58687.1	100%	392	925
HOVDZ22	1012136	457	blastx.2		unnamed protein product [unidentified]	emb CAB69195.1	89%	2	82



HCONM62	1012454	460	blastx.2	100 kDa coactivator [Homo sapiens]	gb AAA80488.1	97% 29%	5 2	1306 646
HOGU69	1012459	461	blastx.2	TB2 [Homo sapiens]	gb AAA66351.1	99%	101	691
HVVBD93	1012469	462	blastx.2	(AK001339) unnamed protein product [Homo sapiens]	dbj BAA91635.1	33% 27%	23 601	382 852
HCOMV86	1012482	463	blastx.2	DC classII histocompatibility antigen alpha-chain [Homo sapiens]	emb CAA25141.1	94% 98%	307 71	834 319
HCONJ23	1012519	464	blastx.2	DNA-PK [Homo sapiens]	gb AAA79184.1	97%	1	990
HVVBL04	1012536	465	blastx.2	inositol 1,4,5- trisphosphate receptor type 2 [Mus musculus]	emb CAA94861.1	98%	2	310
HVVAF65	1012542	466	blastx.2	peroxisomal acyl-CoA oxidase [Homo sapiens]	emb CAA50574.1	98%	3	731
HCONN76	1012545	467	blastx.2	p78 protein [Homo sapiens]	gb AAA36458.1	99%	64	1716
HODEG95	1012599	469	blastx.2	(AF118082) PRO1902 [Homo sapiens]	gb AAF22026.1 AF1 18094_21	64% 41%	452 550	300 443

HCOOX52	1012600	470	blastx.2	C1 inhibitor [Homo sapiens]	emb CAA30314.1	100%	68	1567
HVVVBK78	1012645	472	blastx.2	protein kinase C mu [Homo sapiens]	emb CAA53384.1	98%	101	643
HVVVBK73	1012646	473	blastx.2	amiloride binding protein [Homo sapiens]	emb CAA55046.1	93% 52%	2 648	709 710
HCOMW3 5	1012652	474	blastx.2	NBK [Homo sapiens]	emb CAA62013.1	100%	48	527
HVVVBK78	1012654	475	blastx.2	(AF026851) cytochrome oxidase assembly factor [Homo sapiens]	gb AAD08640.1	99% 99%	44 1102	1099 1701
HVVAF41	1012665	477	blastx.2	(AB006202) cytochrome b small subunit of complex II [Homo sapiens]	dbj BAA22054.1	100%	74	550
HVVAS32	1012668	478	blastx.2	giantin [Homo sapiens]	emb CAA53052.1	95% 97% 27% 22% 23% 23% 22% 23% 23% 22% 23% 22% 20% 22% 19%	24 2032 141 123 222 135 117 153 117 126 117 69 126	2036 2856 1877 2252 2015 2078 2030 2021 1829 2018 1877 2039 1883

[illegible]

HVVAQ22	1012684	480	blastx.2	smooth muscle myosin light chain kinase, smMLCK [C-terminal] 1 1	gb AAB50715.1	98% 98%	67 67	573 573
HTAES83	1012693	481	blastx.2	specific 116-kDa vacuolar proton pump subunit [Homo sapiens]	gb AAA97878.1	99% 99%	302 2350	1990 2961
HOCMN67	1012700	482	blastx.2	receptor kinase [Homo sapiens]	gb AAA58391.1	99% 92% 54% 60%	1 1142 1310 1332	1155 1306 1375 1376
HAPOW35	1012711	483	blastx.2	agpet8 protein. [Schizosaccharomyces pombe]	emb CAA94699.1	48%	113	553
HOVJM48	1013085	484	blastx.2	(AL035593) dJ310J6.1 (novel protein) [Homo sapiens]	emb CAB56526.1	100%	2	454
HBJHY84	1013213	485	blastx.2	(AK000703) unnamed protein product [Homo sapiens]	dbj BAA91330.1	97%	3	653
HFIAS44	1013288	487	blastx.2	(AF124727) acinusS [Homo sapiens]	gb AAD56725.1	99% 100% 43% 38% 34% 28% 24% 26% 23% 30%	205 69 1186 1186 1168 1195 1183 1375 1313 1490	1605 203 1389 1407 1395 1605 1605 1653 1615 1675

HHAUD68	1013349	488	blastx.2	non-histone chromosomal protein [Homo sapiens]	gb AAB53427.1	40%	1112	1207
HEEAA89	1013436	489	blastx.2	(AF071172) HERC2 [Homo sapiens]	gb AAD08657.1	98% 100%	43 2	675 46
HNTAK22	1013524	490	blastx.2	(AF053944) aortic carboxypeptidase-like protein ACLP [Homo sapiens]	gb AAC25585.1	99% 34% 32% 27% 27% 25%	2 2 53 20 3 9	3175 853 853 763 305 341
HOVBX78	1013687	491	blastx.2	(AK001751) unnamed protein product [Homo sapiens]	dbj BAA91882.1	98% 88% 47%	281 633 649	637 707 750
HVVAW7 4	1013740	492	blastx.2	elongation factor 2 [Homo sapiens]	emb CAA35829.1	99% 90%	139 5	516 136
HSPSF84	1013853	493	blastx.2	heat shock protein [Drosophila melanogaster]	emb CAA30276.1	40%	165	440
HPAMV95	1014003	494	blastx.2	metalloproteinase inhibitor precursor [Homo sapiens]	gb AAA59581.1	100%	54	713
HOVBX22	1014041	495	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	60% 40% 63%	317 159 181	183 67 149
HPDRB63	1014204	496	blastx.2	zinc finger protein C2H2-25 [Homo sapiens]	gb AAA93261.1	60% 65% 59% 53%	2 2 2 2	781 646 679 766

HNHG166	1014252	497	blastx.2	fused-ccdB [Escherichia coli]	emb CAA71575.1	49%	47	766
						46%	50	775
HDPPN96	1014432	498	blastx.2	interferon-gamma induced protein [Homo sapiens]	gb AAA58683.1	99%	416	1741
						85%	1535	2434
						39%	1574	2413
						33%	536	1624
HPCTH41	1014485	499	blastx.2	(AB014888) MRJ [Homo sapiens]	dbj BAA32209.1	100%	168	890
						92%	1	123
HPCTY73	1014646	500	blastx.2	glycyl tRNA synthetase [Homo sapiens]	dbj BAA06338.1	100%	83	2299
HCOPQ33	1014730	501	blastx.2	SOX9 [Homo sapiens]	emb CAA86598.1	100%	3	380
HOEBR36	1014754	502	blastx.2	(AF180801) peroxisomal long chain acyl-CoA thioesterase Ib [Mus musculus]	gb AAF13872.1	73%	429	1061
						77%	176	352
						73%	9	167
						44%	352	480
HOEER36	1014869	504	blastx.2	(AF172066) retinoic acid repressible protein [Homo sapiens]	gb AAD49745.1 AF1 72066_1	100%	75	794
HE8OX75	1015010	505	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	53%	328	158
						54%	246	112
						85%	110	48
HVASI06	1015024	506	blastx.2	(AK000178) unnamed protein product [Homo sapiens]	dbj BAA90992.1	100%	106	1086
						31%	619	1206
						96%	35	109
						100%	1083	1106

HDPXP07	1015059	507	blastx.2	(AK000370) unnamed protein product [Homo sapiens]	dbj BAA91118.1	64%	3	215
HE2KH02	1015093	508	blastx.2	(AL137756) hypothetical protein [Homo sapiens]	emb CAB70908.1	99%	1	615
HSPSI60	1015133	509	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	67%	5	319
HOCOC26	1015143	510	blastx.2	(AE001691) conserved hypothetical protein [Thermotoga maritima]	gb AAD35130.1 AE001691_4	40% 41%	136 136	690 543
HHEDC05	1015204	511	blastx.2	Lipoprotein RlpA precursor. [Escherichia coli]	dbj BAA35276.1	98%	867	61
HODES86	1015304	512	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	57%	125	364
HOPJU57	1015324	513	blastx.2	SELENOPROTEIN W.	sp O15532 SELW_HUMAN	98%	934	1164
HVCAC71	1015343	514	blastx.2	alcohol dehydrogenase class III [Homo sapiens]	gb AAA51597.1	99%	41	1204
HSXCO55	1015360	515	blastx.2	coronin-like protein [Schizosaccharomyces pombe]	emb CAB11184.1	33% 28% 30% 24% 30%	159 1258 2063 991 1533	971 1575 2428 1263 1736
HLWDB78	1015430	516	blastx.2	(AK001322) unnamed protein product [Homo sapiens]	dbj BAA91623.1	95% 56%	30 613	602 681

HPCQU04	1015563	517	blastx.2	sapiens] (AF093414) estrogen response element binding protein [Saguinus oedipus]	gb AAC77437.1	98% 73% 77% 30%	315 1232 1309 282	1232 1390 1362 518
HDPAT52	1015574	518	blastx.2	(AF056191) TPA inducible protein [Homo sapiens]	gb AAC12944.1	99% 42% 45% 38% 37% 37% 36% 34%	122 290 467 458 467 473 473 467	1054 1054 1018 1030 1030 1024 1024 1024
HAOSL81	1015620	519	blastx.2	P24 protein [Mus musculus]	dbj BAA18947.1	41% 32%	139 815	549 970
HMWU46	1015814	520	blastx.2	(AF148457) heterogeneous nuclear ribonucleoprotein, alternate transcript [Homo sapiens]	gb AAF04487.1 AF1 48457_1	99%	232	1152
HSXCQ19	1015994	521	blastx.2	(AC006486) BC85722_1 [Homo sapiens]	gb AAD11988.1	90% 37% 25% 29% 30% 28% 25% 47%	3 880 30 595 15 63 523 341	1175 1203 515 867 299 284 888 397
HNOAG06	1016272	522	blastx.2	(AF001947) U4/U6- associated RNA	gb AAC09069.1	100%	340	546



HE2KN09	1016351	523	blastx.2	splicing factor [Homo sapiens] (AF095446) syndesmos [Gallus gallus]	gb AAF29566.1 AF095446.1	75%	24	680
HI SDH58	1016740	524	blastx.2	(AF060570) rig-1 protein [Mus musculus]	gb AAD11628.1	70% 65% 48%	69 55 1058	1313 210 1222
HSPSB62	1016768	525	blastx.2	(AB016533) nuclear protein containing a WW domain (Npw38) [Homo sapiens]	dbj BAA76400.1	100%	196	990
HE2FR37	1016939	526	blastx.2	(AF213393) ATP-binding cassette protein [Mus musculus]	gb AAF31432.1	73%	247	726
HBJHU33	1017051	527	blastx.2	(AK001775) unnamed protein product [Homo sapiens]	dbj BAA91901.1	99%	82	618
HCOQZ88	1017227	528	blastx.2	(AF027299) protein 4.1-G [Homo sapiens]	gb AAC16923.1	100% 47%	225 3	1196 722
HNTSV21	1017374	529	blastx.2	seryl-tRNA synthetase [Homo sapiens]	emb CAA62635.1	95% 90%	712 3	1008 32
HNORH33	1017461	530	blastx.2	(AJ132637) ATP-dependent metalloprotease YME1L [Homo sapiens]	emb CAB51858.1	99%	255	2063
HUF EF35	1017565	531	blastx.2	precursor polypeptide (AA -21 to 782) [Homo sapiens]	emb CAA33261.1	99% 100% 35%	303 2527 1083	2123 3048 1166

HJPCG39	1017694	532	blastx.2	(AF118078) PRO1848 [Homo sapiens]	gb AAF22022.1 AF1 18094_17	65%	17	139
HISBM03	1017772	533	blastx.2	(AF092576) translation initiation factor eIF3 p40 subunit; 1	gb AAC84044.1	45%	142	240
HOFAA79	1017801	534	blastx.2	(AF134404) delta-6 fatty acid desaturase [Homo sapiens]	gb AAD31282.1 AF1 34404_1	100%	751	924
HPRAJ96	1017825	535	blastx.2	growth-regulating protein [Homo sapiens]	gb AAA18898.1	88%	14	532
HBXFX71	1018032	536	blastx.2	(AF071081) proline- rich mucin homolog [Mycobacterium tuberculosis]	gb AAD41594.1 AF0 71081_1	83%	505	885
HMVDD8 1	1018080	537	blastx.2	(AF161477) HSPC128 [Homo sapiens]	gb AAF29092.1 AF1 61477_1	100%	690	824
HVVDH50	1018226	538	blastx.2	zyxin [Homo sapiens]	emb CAA64447.1	100%	653	685
HNNBT57	1018243	539	blastx.2	(AK000372) unnamed protein product [Homo sapiens]	dbj BAA91120.1	32%	1	597
HCONJ11	1018459	540	blastx.2	(AF083385) 30kDa splicing factor; SPF 30 [Homo sapiens]	gb AAC64086.1	30%	1	633
HCOAW6	1018501	541	blastx.2	(AK000010) unnamed	dbj BAA90881.1	99%	23	745
						100%	143	1327
						100%	1330	1857
						32%	1303	1455
						21%	662	1336
						32%	134	346
						45%	1822	1914
						24%	5	295
						54%	194	45
						28%	355	230
						30%	363	244
						100%	186	899
						100%	104	436

8					protein product [Homo sapiens]		100%	1198	1293
HVVCY25	1018772	542	blastx.2	almost identical to nRNP M protein, acc.L03532 [Homo sapiens]	emb CAA50897.1		96%	1381	1455
HCOMB65	1018802	543	blastx.2	dJ68O2.2 (myosin, heavy polypeptide 9, non-muscle) [Homo sapiens]	emb CAB05105.1		98%	409	1059
							56%	418	792
							47%	394	711
							48%	418	810
							99%	332	1204
							100%	1803	2600
							100%	1204	1800
							26%	1725	2486
							63%	19	246
							23%	332	1237
							23%	335	1243
							25%	341	1183
							23%	332	1156
							23%	1803	2588
							22%	332	1147
							22%	332	1195
							25%	332	1195
							23%	332	1201
							23%	299	1249
							22%	1734	2531
							23%	1204	1746
							27%	1207	1791
							21%	1219	1767
							22%	335	1198
							30%	1258	1788
							22%	1794	2588
							23%	491	1204
							19%	335	1237

[illegible]

							22%	1204	1788
							23%	1237	1803
							18%	1189	1767
							25%	611	1183
							25%	1228	1473
							29%	1222	1440
							31%	1714	1800
							35%	67	228
							27%	1684	1803
							31%	115	237
							28%	61	216
							26%	67	225
							24%	258	401
							19%	34	234
							28%	249	344
							26%	1192	1305
HVVCF30	1018907	544	blastx.2	(AF010144) neuronal thread protein AD7c- NTP [Homo sapiens]	gb AAC08737.1		53%	121	387
							61%	118	294
							69%	149	295
							62%	3	131
							59%	284	349
							53%	42	128
							47%	282	380
HODBV21	1018943	545	blastx.2	(AC004537) similar to tumor suppressor p33ING1; similar to AF044076 (PID:g2829208) [Homo sapiens]	gb AAC12956.1		99%	151	861
HCHMD81	1019326	546	blastx.2	(AL023859) trna-	emb CAA19575.1		42%	733	945

					splicing endonuclease subunit [Schizosaccharomyces pombe]		29%	85	423
HAZAR95	1019338	547	blastx.2		phosphate carrier protein [Homo sapiens]	emb CAA42641.1	100%	110	1192
HMWFS51	1019409	548	blastx.2		(AB012223) ORF2 [Canis familiaris]	dbj BAA25253.1	41% 54% 42%	314 71 648	607 277 704
HE8SD82	1019585	549	blastx.2		(AL035494) dJ635G19.2.1 (novel protein (isoform 1)) [Homo sapiens]	emb CAB44749.1	99%	13	570
HSPSN08	1019608	550	blastx.2		(AF161491) HSPC142 [Homo sapiens]	gb AAF29106.1 AF161491.1	100% 99%	134 918	919 1235
HVCAH24	1019749	551	blastx.2		(AC002394) Unknown gene product [Homo sapiens]	gb AAC05810.1	100%	103	468
HJPCF71	1019892	554	blastx.2		(AK000566) unnamed protein product [Homo sapiens]	dbj BAA91259.1	98%	234	830
HVCAE76	1019942	555	blastx.2		zinc finger protein [Rattus norvegicus]	emb CAA42610.1	48% 34% 50% 63%	576 72 1 89	2075 731 90 121
HOCMH14	1020007	556	blastx.2		(AL137618) hypothetical protein [Homo sapiens]	emb CAB70844.1	99% 78% 42%	298 1146 1871	1311 1730 1984
HPDRZ03	1020130	557	blastx.2		CCAAT-box DNA binding protein subunit	gb AAA59930.1	100%	131	751

HOCPO73	1020180	558	blastx.2	NF-YB [Homo sapiens] protein p84 [Homo sapiens]	gb AAA53571.1	93% 97% 100% 42% 37%	3646 3881 3993 1832 1888	2024 3636 3940 1758 1841
HNKDT10	1020832	559	blastx.2	(AF191018) E2IG3 [Homo sapiens]	gb AAF09482.1 AF1 91018_1	99% 93%	77 426	436 569
HWHGO2 5	1020841	560	blastx.2	(AF090942) PRO0657 [Homo sapiens]	gb AAF24054.1 AF0 90942_1	68%	3	137
HWMNE3 1	1020852	561	blastx.2	(AF083384) 45kDa splicing factor; SPF 45 [Homo sapiens]	gb AAC64085.1	98%	169	675
HUSYJ75	1020878	562	blastx.2	(AJ242540) hydroxyproline-rich glycoprotein DZ- HRGP [Volvox carteri f. nagariensis]	emb CAB62280.1	33% 35% 34% 32% 34% 32% 31% 32% 29% 31% 30% 28% 34% 31%	67 67 67 67 67 67 67 67 64 67 64 64 184 184	684 624 624 684 624 714 696 624 714 654 654 696 624 783
HSDFS07	1020904	563	blastx.2	(AL033534) hypothetical serine-rich secreted protein	emb CAA22127.1	27%	981	118

HCOPC09	1021208	564	blastx.2	[Schizosaccharomyces pombe] (AJ245905) HSBP1-like protein [Chlorocebus aethiops]	emb CAB55759.1	95%	183	305
HVVBT22	1021323	565	blastx.2	hnRNP G protein [Homo sapiens]	emb CAA80599.1	100%	936	1649
HAMFW6 6	1021327	566	blastx.2	(AF075704) neuronal glutamine transporter [Rattus 1]	gb AAF34240.1 AF075704_1	89% 89% 100%	20 949 15	937 1227 53
HPMBW8 6	1021661	567	blastx.2	(AF129756) G4 [Homo sapiens]	gb AAD18083.1 AA D18083	85%	3	614
HOFMK02	1021666	568	blastx.2	(AF038616) small tumor antigen t-ag [Simian virus 40]	gb AAC59341.1	100%	159	230
HOUHK71	1021682	569	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	75%	429	268
HCOOW2 3	1021759	570	blastx.2	(AJ011376) hypothetical protein [Homo sapiens]	emb CAB66159.1	30%	210	689
HACMT02	1021794	571	blastx.2	ORF_o109 [Escherichia coli]	gb AAA79814.1	100%	209	3
HISDS67	1022018	572	blastx.2	(AK000633) unnamed protein product [Homo sapiens]	dbj BAA91298.1	60% 36% 43% 28% 24% 30% 38%	22 1139 1130 890 417 1277 1344	339 1318 1225 1327 950 1522 1484



HOVAA59	1022037	573	blastx.2	(AC002291) Similar ATP-dependent RNA Helicase [Arabidopsis thaliana]			27% 48% 28% 41%	1232 590 1285 1143	1372 682 1455 1193
						gb AAC00620.1	59% 33% 31% 39% 21% 46% 29% 27% 38% 36%	252 1765 1316 1573 1744 1417 1744 1736 1447 1718	1319 2421 1585 1770 2211 1506 1917 1966 1536 1813
HOCPL72	1022059	574	blastx.2	(AK001197) unnamed protein product [Homo sapiens]		dbj BAA91548.1	97% 92%	38 2402	1063 2440
HCOMM0 5	1022082	575	blastx.2	epidermal growth factor receptor kinase substrate [Homo sapiens]		gb AAA62280.1	46% 43% 23%	445 115 43	840 435 222
HLYDC86	1022162	576	blastx.2	(AF015040) NUMB protein [Homo sapiens]		gb AAD01548.1	100% 100%	3 839	836 1570
HTLEP21	1022167	577	blastx.2	(AF081280) nucleoplasmin-3 [Homo sapiens]		gb AAC31609.1	97% 100%	101 33	445 95
HVCAS77	1022313	578	blastx.2	ribonuclease HI large subunit [Homo sapiens]		emb CAB09725.1	99%	176	1072
HSKJP93	1022663	580	blastx.2	(AL050022) hypothetical protein		emb CAB43242.1	100%	2	247

HAZAA64	1022719	581	blastx.2	[Homo sapiens] predicted using Genefinder; Similarity to Prototheca 1 1 gene; cDNA EST yk386c1.3 comes from this gene; cDNA EST yk38	emb CAA9938.1	43%	304	705
HSEBD72	1022904	582	blastx.2	(AF044773) breakpoint cluster region protein 1 [Homo sapiens]	gb AAC08964.1	89%	164	580
HDPYE27	1022911	583	blastx.2	(AF062346) zinc finger protein 216 splice variant 1 [Homo sapiens]	gb AAC42601.1	100%	428	1066
HCRQL51	1022997	584	blastx.2	PEG1/MEST [Homo sapiens]	emb CAA72297.1	100%	50	1030
HDTCC55	1023046	585	blastx.2	(AL117483) hypothetical protein [Homo sapiens]	emb CAB55956.1	33% 35% 42%	306 4 105	533 105 182
HOOJQ91	1023049	586	blastx.2	envelope protein [Homo sapiens]	gb AAA88027.1	63%	3	530
HCE4K28	1023227	587	blastx.2	(AF021792) Bcl- X/Bcl-2 binding protein [Homo sapiens]	gb AAB72092.1	98%	262	750
HPDVY62	1023264	588	blastx.2	DOCK180 protein [Homo sapiens]	dbj BAA09454.1	99%	2	1126
HLHDK42	1023339	589	blastx.2	modifier 2 [Mus musculus]	emb CAA40012.1	61% 85%	58 3	300 62
HLDRQ55	1023375	590	blastx.2	coiled-coil like protein	gb AAB61902.1	98%	5	388

HVVBI06	1023414	591	blastx.2	1 [Mus musculus] (AF064603) GA17 protein [Homo sapiens]	gb AAC17108.1	97% 96%	93 1359	647 637
HOCME51	1023422	592	blastx.2	(AK001103) unnamed protein product [Homo sapiens]	dbj BAA91503.1	98% 96% 97%	14 319 498	313 492 623
HPDOP74	1023531	593	blastx.2	(AF104670) cell cycle protein [Homo sapiens]	gb AAD05561.1	100%	173	1354
HMSOH12	1023545	594	blastx.2	chaperonin-like protein [Homo sapiens]	gb AAA61061.1	100%	1	1077
HOPJG50	1023584	595	blastx.2	ribosomal protein L34 [Homo sapiens]	gb AAC41916.1	97%	157	507
HDUAB04	1023585	596	blastx.2	ribosomal protein L34 [Homo sapiens]	gb AAC41916.1	97%	21	371
HVCAA38	1023632	597	blastx.2	TREB protein [Homo sapiens]	emb CAA39149.1	100%	36	818
HIBC87	1023837	598	blastx.2	(AF006264) recombination and sister chromatid cohesion protein homolog [Homo sapiens]	gb AAD01193.1	96% 92% 79% 100% 67% 28% 33% 40% 38% 36% 35%	1 1160 1332 1582 969 88 202 250 1169 331 969	1017 1300 1478 1665 1070 972 471 417 1315 510 1028
HPCOM04	1024000	599	blastx.2	vacuolar H+ ATPase E subunit [Homo sapiens]	emb CAA53814.1	100%	141	818

HPAME01	1024332	601	blastx.2	(AL109978) hypothetical protein [Homo sapiens]	emb CAB53376.1	98%	804	1061
HTTJS76	1024472	602	blastx.2	N-WASP [Homo sapiens]	dbj BAA20128.1	97% 68%	3 6	392 44
HCORI57	1024556	603	blastx.2	39 kDa encoded by N33 [Homo sapiens]	gb AAB18374.1	97% 57%	200 198	1231 275
HNORG50	1024624	604	blastx.2	(AF006084) p41-Arc [Homo sapiens]	gb AAB64189.1	98% 66%	62 1029	1027 1112
HWLVR07	1024915	605	blastx.2	(AL050273) hypothetical protein [Homo sapiens]	emb CAB43374.1	100%	203	517
HOPKF60	1025047	606	blastx.2	(AJ249366) epsilon- COP protein [Homo sapiens]	emb CAB55628.1	100%	48	971
HBDAD74	1025102	607	blastx.2	(AL031640) /prediction=(method:"" genscan"" version:""1.0"" target:SPTREMBL::O6087	emb CAA21052.1	39%	2	403
HPCTY12	1025231	608	blastx.2	(AB015597) hTIM1 [Homo sapiens]	dbj BAA36499.1	96%	68	1225
HFASF12	1025327	609	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	64%	251	3
HLIBM71	1025359	610	blastx.2	(AF110776) adrenal gland protein AD-003 [Homo sapiens]	gb AAF14859.1 AF110776_1	98% 100%	183 512	512 766

HNOKW2 7	1025366	611	blastx.2	F35C11.4 [Caenorhabditis elegans]	emb CAA90244.1	30% 31%	162 743	632 1060
HPFDG48	1025526	612	blastx.2	(AF083242) HSPC024- iso [Homo sapiens]	gb AAD39840.1	88% 90%	313 564	387 623
HVVBF24	1025712	613	blastx.2	TRAM protein [Homo sapiens]	emb CAA45218.1	100%	175	1296
HE8UF88	1025745	614	blastx.2	retinoblastoma-binding protein mRbAp48 [Mus musculus]	gb AAC52275.1	96% 40%	124 1391	1473 1495
HOUBC29	1025749	615	blastx.2	GTP-binding protein (rab2) [Canis familiaris]	gb AAA30888.1	100%	444	719
HOCYP47	1025965	616	blastx.2	(AF055010) unknown [Homo sapiens]	gb AAC09360.1	99% 92%	1567 1337	2760 1594
HOVKE20	1025990	617	blastx.2	follistatin-related protein FLRG [Homo sapiens]	gb AAC64321.1	100%	36	824
HODBK27	1026372	619	blastx.2	(AF054284) spliceosomal protein SAP 155 [Homo sapiens]	gb AAC97189.1	100%	123	497
HE8CH59	1026805	620	blastx.2	(AK001093) unnamed protein product [Homo sapiens]	dbj BAA91500.1	100% 100% 31% 36%	1913 1654 1994 2405	2632 1848 2689 2755
HSKGR52	1026911	621	blastx	putative glycosyl transferase [Schizosaccharomyces pombe]	emb CAB10854.1	55% 76% 42% 40%	488 389 272 92	616 439 376 202

HMUAQ0 5	1026913	622	blastx.2	(AF151825) CGI-67 protein [Homo sapiens]	gb AAD34062.1 AF1 51825_1	74%	54	524
HCOMA45	1026979	623	blastx.2	(AF113685) PRO0974 [Homo sapiens]	gb AAF29584.1 AF1 13685_1	51% 66%	557 601	378 566
HE2KI45	1027007	624	blastx.2	(AF161553) HSPC068 [Homo sapiens]	gb AAF29040.1 AF1 61553_1	99%	6	1565
HODDO66	1027207	625	blastx.2	S-adenosylmethionine synthetase [Homo sapiens]	emb CAA48726.1	78% 94% 52%	35 865 7	241 975 63
HVVAT45	1027269	626	blastx.2	(AF102265) N- acetylglucosamine- phosphate mutase [Homo sapiens]	gb AAC72409.1	100% 100%	275 74	1117 277
HVCAG18	1027484	627	blastx.2	(AL031663) dJ461P17.6 (Major Epididymis-specific protein E4 1 1 sapiens]	emb CAB37641.1	100%	22	393
HPTXK72	1027486	628	blastx.2	(AL031663) dJ461P17.6 (Major Epididymis-specific protein E4 1 1 sapiens]	emb CAB37641.1	100%	91	462
HDTLR06	1029191	630	blastx.2	(AF132552) BcDNA.GM01838 [Drosophila melanogaster]	gb AAD27851.1 AF1 32552_1	73%	123	1004
HPAMG11	1029484	631	blastx.2	BB1=malignant cell expression-enhanced gene/tumor 1 line, Peptide, 342 aa] [Homo sapiens]	gb AAB37433.1	99%	2	667

HSDJR27	1030870	632	blastx.2	(AL137520) hypothetical protein [Homo sapiens]	emb CAB70786.1	100%	52	1176
HOCPL33	1030871	633	blastx.2	extensin [Volvox carteri]	emb CAA46283.1	32%	1097	1516
						35%	1037	1429
						33%	1040	1420
						32%	1094	1429
						45%	1747	1899
						34%	1735	1881
						48%	566	640
						36%	74	130
HPCQN80	1030963	634	blastx.2	ha1025 is new [Homo sapiens]	dbj BAA07552.1	99%	95	2158
HODFZ16	1031085	636	blastx.2	(AB033168) nuclear protein ZAP [Mus musculus]	dbj BAA85182.1	96%	1	96
						86%	349	462
HWGAE28	1031316	637	blastx.2	member of DEAD box protein family [Homo sapiens]	emb CAA49992.1	99%	52	2271
HOFNZ21	1031328	638	blastx.2	valosin-containing protein [Sus scrofa]	gb AAA31142.1	65%	259	423
HOOKH25	1031329	639	blastx.2	(AC004472) TERA_HUMAN [Homo sapiens]	gb AAC07984.1	100%	279	2696
HDTIL75	1031435	640	blastx.2	(AK000031) unnamed protein product [Homo sapiens]	dbj BAA90894.1	99%	22	1092

HPRSB55	1031451	641	blastx.2	(AF168418) activating signal cointegrator 1 [Homo sapiens]	gb AAF01278.1	99%	9	1751
HPDPY36	1031606	642	blastx.2	(AF125182) single-strand selective monofunctional uracil DNA glycosylase [Homo sapiens]	gb AAD17301.1	100%	512	631
HETPJ47	1031922	643	blastx.2	(AF020797) AP-mu chain family member mu1B [Homo sapiens]	gb AAD25870.1 AF020797_1	99%	60	1328
HMAMI21	1031988	644	blastx.2	hypothetical protein Rv0712 [Mycobacterium tuberculosis]	emb CAB06436.1	41%	365	1204
HCOQQ85	1032475	645	blastx.2	S100 calcium-binding protein A13 (S100A13) [Homo sapiens]	emb CAA68188.1	100%	379	672
HE2DQ62	1033653	646	blastx.2	putative T1/ST2 receptor binding protein precursor [Homo sapiens]	gb AAC50419.1	98%	105	785
HEBAE89	1034320	647	blastx.2	(AK000264) unnamed protein product [Homo sapiens]	dbj BAA91040.1	97%	260	400
HKDBF43	1034471	648	blastx.2	(AL049705) hypothetical protein [Homo sapiens]	emb CAB41269.1	100%	48	431
HVVCT43	1034539	649	blastx.2	novel ORF [Homo sapiens]	gb AAB72234.1	91% 100%	700 633	801 698



HTTDR30	1035435	650	blastx.2	(AF214634) polyA binding protein [Homo sapiens]	gb AAF19993.1 AF214634_1	91%	806	841
HODGO46	1035602	651	blastx.2	unknown protein [Homo sapiens]	gb AA88036.1	38%	468	115
HNTTB23	1035988	652	blastx.2	(AJ246001) spastin protein [Homo sapiens]	emb CAB60141.1	99%	93	974
HVVVBV73	1036583	653	blastx.2	(AF013249) leukocyte-associated Ig-like receptor-1 [Homo 1]	gb AAB69324.1	100%	439	1299
HTEPV42	1036973	655	blastx.2	(AK001738) unnamed protein product [Homo sapiens]	dbj BAA91872.1	99%	1	435
HFTCG52	1037108	656	blastx.2	(AF117723) seed maturation protein PM27 [Glycine max]	gb AAD30426.1 AF117723_1	30%	286	786
HKAOB40	1037131	657	blastx.2	predicted using Genefinder; Similarity to Drosophila RNA I this gene [Caenorhabditis elegans]	emb CAB01127.1	32%	73	357

HPDVE37	1037303	658	blastx.2	cathepsin C [Homo sapiens]	emb CAA60671.1	100%	118	885
HTLES74	1037438	659	blastx.2	GAP-associated protein p190 - rat	pir A38218 A38218	74% 56% 63% 41%	50 681 15 43	811 875 152 171
HCORG51	1037480	660	blastx.2	ubiquitin-like protein [Bos taurus]	gb AAB49682.1	100%	150	434
HPAMM7 2	1038344	661	blastx.2	nucleoside-diphosphate kinase [Homo sapiens]	emb CAA68877.1	99%	44	520
HKZAT03	1038378	662	blastx.2	endothelial cell growth factor [Homo sapiens]	gb AAA60043.1	100%	114	1559
HDQMA8 5	1038717	663	blastx.2	glutathione S-transferase [Homo sapiens]	gb AAA35934.1	100% 100%	234 110	356 235
HVCCQ82	1038718	664	blastx.2	glutathione S-transferase [Homo sapiens]	gb AAA35934.1	100%	114	578
HTGFP54	1038915	665	blastx.2	(AL080156) hypothetical protein [Homo sapiens]	emb CAB45747.1	94%	415	525
HBODF41	1039017	666	blastx.2	beta-spectrin [Homo sapiens]	gb AAA60580.1	99% 20% 21% 22% 19% 22% 60%	1 7 28 16 1 184 2127	2172 2091 2151 2187 2118 2193 2351
HPAMC60	1039290	668	blastx.2	TRAF4-associated factor 2 [Homo sapiens]	gb AAD24202.1 U83194 1	100%	31	1242

HLMHM8 3	1039491	669	blastx.2	sapiens] (AK001123) unnamed protein product [Homo sapiens]	dbj BAA91513.1	44%	158	616
HOUDK70	1039538	670	blastx.2	(AF091083) unknown [Homo sapiens]	gb AAC72952.1	100%	285	1142
HMEFK29	1039652	672	blastx.2	(AC002398) F25965_1 [Homo sapiens]	gb AAB81199.1	54% 100%	808 1	993 48
HAOSK79	1039663	673	blastx.2	(AJ223953) hPTTG [Homo sapiens]	emb CAA11683.1	100%	54	659
HPDRV42	1039689	674	blastx.2	P58 [Homo sapiens]	gb AAC50331.1	100%	135	1649
HOPJD35	1039703	675	blastx.2	(AF035262) BAF57 [Homo sapiens]	gb AAC04509.1	100%	121	1353
HTFNP84	1039748	676	blastx.2	ect2 [Mus musculus]	gb AAA37536.1	94% 42%	73 27	1227 125
HTHDT76	1039871	677	blastx.2	(AL117404) hypothetical protein [Homo sapiens]	emb CAB55905.1	98%	7	564
HSYEC21	1039891	678	blastx.2	adenosine triphosphatase [Homo sapiens]	gb AAA35999.1	99% 96% 37%	432 1 3819	2372 435 3890
HKGCO25	1040384	679	blastx.2	NAP [Homo sapiens]	gb AAC37544.1	99%	3	665
HNOJN70	1040385	680	blastx.2	(AF062594) nucleosome assembly protein [Rattus norvegicus]	gb AAC67388.1	100%	297	425
HADFS31	1040388	681	blastx.2	(AF214680) C3HC4- like zinc finger protein [Homo sapiens]	gb AAF30180.1	88% 92%	449 145	832 504

HJBDC89	1040569	682	blastx.2	nonhepatic arginase [Homo sapiens]	dbj BAA13158.1	100%	113	661
HTAIX75	1040591	683	blastx.2	(AK000897) unnamed protein product [Homo sapiens]	dbj BAA91413.1	97%	651	1175
HODBO29	1040620	684	blastx.2	thioesterase II [Homo sapiens]	emb CAA60024.1	47%	303	557
HOCOF27	1040631	685	blastx.2	zinc-finger helicase [Homo sapiens]	gb AAC39923.1	63%	84	527
HSPSE88	1040694	686	blastx.2	tumor susceptibility protein [Homo sapiens]	gb AAC52083.1	91%	277	687
HSKXM78	1040826	687	blastx.2	(AK001550) unnamed protein product [Homo sapiens]	dbj BAA91751.1	100%	110	922
HNLMB92	1040913	688	blastx.2	protein of unknown function [Homo sapiens]	gb AAA63232.1	52%	68	175
HE8ON57	1040925	689	blastx.2	(AF005855) anon2A5 [Drosophila melanogaster]	gb BAB81486.1	63%	1	654
HOCOC14	1040932	690	blastx.2	protein antigen [synthetic construct]	emb CAA01182.1	75%	108	398
HOGDP49	1041049	691	blastx.2	bcn92 [Drosophila subobscura]	emb CAB55311.1	31%	505	618
HOFMK22	1041070	692	blastx.2	(AF161479) HSPC130 [Homo sapiens]	gb AAF29094.1 AF1 61479 1	96%	355	666
HBGNT69	1041900	693	blastx.2	NF-AT3 gene product [Homo sapiens]	gb AAA79175.1	26%	50	415
						100%	539	1384
						55%	226	474
						94%	3	356
						100%	111	428
						71%	3	212
						39%	421	612

HSPSI42	1042462	694	blastx.2	ubiquitin-activating enzyme E1 [Homo sapiens]	gb AAA61246.1	40%	455	586
HPDQD23	1042649	695	blastx.2	(AF055470) ZNF258 [Homo sapiens]	gb AAD15797.1	65%	174	338
HWMBA10	1042859	696	blastx.2	Mel-18 protein [Homo sapiens]	dbj BAA03074.1	95%	2717	2256
HETKL27	1042951	698	blastx.2	unknown [Homo sapiens]	gb AAA76738.1	40%	188	637
HPCTH04	1043273	699	blastx.2	ATL-derived factor/thioredoxin [Homo sapiens]	emb CAA54687.1	100%	180	494
HVVBM94	1043532	701	blastx.2	pre-pump-1 proteinase (AA -17 to 250) [Homo sapiens]	emb CAA30678.1	100%	52	852
HVVBC43	1043553	702	blastx.2	(AB000468) zinc finger protein [Homo sapiens]	dbj BAA19122.1	100%	301	870
HTPDM31	1044199	703	blastx.2	proline-rich protein MP2 - mouse (fragment)	pir A24264 A24264	31%	632	48
						34%	584	51
						33%	632	138
						34%	620	225
						53%	742	659
						39%	790	659
						39%	790	659
						39%	790	659

HSQEK12	1044577	704	blastx.2		similar to Human Sp2 protein (M97190) [Homo sapiens]	dbj BAA05923.1	41% 38%	790 790	662 662
HPDRZ16	1044618	705	blastx.2		(AF106473) leucine-rich-domain inter-acting protein 1; LeR 1	gb AAD17989.1	72%	424	834
HVCBC44	1044635	706	blastx		CTP synthetase homolog [Mus musculus]	gb AAB17729.1	77%	3	896
HPIAC22	1044711	707	blastx.2		D-E-A-D box protein [Drosophila melanogaster]	gb AAC14192.1	42% 47%	749 20	1738 493
HSODA53	1044741	708	blastx.2		(AF213393) ATP-binding cassette protein [Mus musculus]	gb AAF31432.1	68% 73%	1316 1101	1657 1319
HE9ML74	1044760	709	blastx.2		coded for by C. elegans cDNA yk34b1.5; coded for by C. elegans 1 1 coded for by C. elegans cDNA yk46e8.3; coded fo	gb AAB00699.1	77% 41% 52% 21% 31%	940 465 6 315 450	1269 932 260 614 593
HPDRB76	1044762	710	blastx.2		adenylate kinase 2B [Homo sapiens]	gb AAC13881.1	100%	160	855
HSYDI55	1044769	711	blastx.2		(AF151819) CGI-61 protein [Homo sapiens]	gb AAD34056.1 AFI 51819 1	100% 97%	309 1067	1067 1174
HOGCI31	1044821	712	blastx.2		(AL110271) hypothetical protein [Homo sapiens]	emb CAB53709.1	96%	34	558

HNOKX86	1044893	713	blastx.2	(AF092138) HSPC033 [Homo sapiens]	gb AAD40380.1	100%	303	575
HTPHG81	1045117	714	blastx.2	(AL117402) hypothetical protein [Homo sapiens]	emb CAB55903.1	100%	537	1538
HPCTV49	1045379	715	blastx.2	ribosomal protein [Homo sapiens]	gb AAA36589.1	100%	127	444
HHGDK68	1045464	716	blastx.2	(AL020993) dJ5O6.1 (casein kinase 1, epsilon) [Homo sapiens]	emb CAA15888.1	89% 100%	124 765	858 1013
HNOKM3 8	1045500	717	blastx.2	transducin (beta) like 1 protein [Homo sapiens]	emb CAA73319.1	99%	120	1640
HHFUN47	1045842	718	blastx.2	(AF099028) putative transmembrane protein cmp44E [Drosophila melanogaster]	gb AAD12254.1	49% 52% 27% 83%	2 2 1007 865	1135 952 2368 882
HE9EJ82	1046856	722	blastx.2	beta-signal sequence receptor [Homo sapiens]	dbj BAA07206.1	96%	24	173
HODHS68	1047137	724	blastx.2	(AK000826) unnamed protein product [Homo]	dbj BAA91390.1	99%	528	1220





HOFAE31	1047670	734	blastx.2	ubiquinol--cytochrome- c reductase (EC 1.10.2.2) 11K protein - bovine	pir A00119 CCBO11	93% 92%	2 180	181 221
HNOAC93	1047820	736	blastx.2	(AB016092) RNA binding protein [Homo sapiens]	dbj BAA83718.1	100%	69	305
HMEJA45	1047848	737	blastx.2	(AF091242) ATP sulfurylase/APS kinase 2 [Homo sapiens]	gb AAC64583.1	87%	166	399
HLDAS11	1047937	738	blastx.2	Similar to Human C219-reactive peptide (L34688) [Homo sapiens]	dbj BAA13448.1	99% 91% 32%	233 52 503	958 249 907
HWMJB31	1048009	739	blastx.2	DARPP- 32=DOPAMINE AND CAMP-REGULATED PHOSPHOPROTEIN.	sp G545790 G545790	94%	169	729
HAZAA31	1048188	740	blastx.2	transketolase [Homo sapiens]	gb AAA98961.1	100% 76%	778 92	1959 1033
HOCMC83	1048300	741	blastx.2	hypothetical protein [Schizosaccharomyces pombe]	emb CAB11599.1	30%	446	1279
HCFC40	1048427	742	blastx.2	(AK001123) unnamed protein product [Homo sapiens]	dbj BAA91513.1	46%	17	1231
HVCAA65	1048595	743	blastx.2	(AF022815) proteasome subunit XAPC7 [Homo sapiens]	gb AAB81515.1	100%	191	934

HSPSI76	1048635	744	blastx.2	prolyl 4-hydroxylase alpha (II) subunit [Homo sapiens]	gb AAB71339.1	99%	208	1578
HVVCH35	1048658	745	blastx.2	(AF177385) cytochrome c oxidase assembly protein isoform 2 [Homo sapiens]	gb AAF05313.1 AF1 77385_1	99%	436	1233
HOFNI66	1048739	746	blastx.2	signal peptidase complex 25 kDa subunit [Canis familiaris]	gb AAA21254.1	95%	33	710
HMSKI90	1048792	747	blastx.2	unknown protein [Homo sapiens]	gb AAA88038.1	39% 28% 45% 100%	3258 1452 2039 327	2377 1180 1944 310
HSYBI49	1049151	748	blastx.2	(AF101051) senescence-associated epithelial membrane protein [Homo sapiens]	gb AAD16433.1	100%	173	805
HTXSN37	1049372	749	blastx.2	(AL080159) hypothetical protein [Homo sapiens]	emb CAB45750.1	47% 46%	1154 408	1861 530
HMUBT31	1049466	750	blastx.2	serine palmitoyltransferase, subunit I [Homo sapiens]	emb CAA69941.1	100%	11	1429
HFPDO90	1049644	751	blastx.2	Similarity to yeast hypothetical protein PIR accession number	emb CAA94801.1	100%	516	611

					1 1 this gene; cDNA EST yk504c7.3 comes from this gene; cDN						
HVVCB79	1050102	752	blastx.2		urokinase [synthetic construct]	emb CAA00829.1	95%	213	1139		
HDPGR19	1050167	753	blastx.2		(AL031733) dJ455J7.1 (cellular repressor of E1A-stimulated genes CREG) [Homo sapiens]	emb CAB42866.1	96%	1067	1504		
HVVDX63	1050256	754	blastx.2		interferon regulatory factor 1 [Homo sapiens]	gb AAA36043.1	100%	11	670		
HNOJA87	1050282	755	blastx.2		NUCLEAR FACTOR ERYTHROID 2 RELATED FACTOR 2 (NF-E2 1 ERYTHROID DERIVED 2, LIKE 2) (HEBP1).	sp Q16236 NFL2_HU MAN	99%	643	2415		
HTPGI65	1050419	756	blastx.2		ESX [Homo sapiens]	gb AAB58075.1	100%	161	1273		
HHFGN14	1050536	757	blastx.2		DNA binding protein [Homo sapiens]	dbj BAA08565.1	99%	1818	2738		
							97%	405	995		
							53%	121	810		
							31%	203	421		
							32%	465	833		
							40%	3017	3136		
							28%	1464	1784		
							46%	2939	2983		
HTAIN76	1050553	758	blastx.2		(AF016903) agrin precursor [Homo]	gb AAC39776.1	98%	371	1300		
							96%	3	416		

HL YBO89	1050702	759	blastx.2	caltractin [Homo sapiens]			36%	614	1252
HMEKJ82	1050767	760	blastx.2	serine/threonine protein kinase Krs-1 [Homo sapiens]			32%	614	1291
HOFNX17	1050969	761	blastx.2	annexin I [Oryctolagus cuniculus]			45%	3	416
HAOSY21	1051095	762	blastx.2	(AF151048) HSPC214 [Homo sapiens]			31%	3	440
HMWDB3	1051115	763	blastx.2	V-1 protein [Rattus norvegicus]			38%	386	721
HAOSZ53	1051246	764	blastx.2	(AF028823) Tax interaction protein 1 [Homo sapiens]			40%	426	557
HSODP14	1051256	765	blastx.2	p0071 protein [Homo sapiens]			26%	98	430
							32%	465	665
							35%	19	198
							27%	1125	1331
							58%	3	38
							40%	541	648
							58%	155	196
							100%	42	557
							95%	196	597
							91%	188	574
							45%	571	672
							85%	174	569
							99%	245	598
							100%	56	403
							82%	244	522
							96%	53	247
							53%	385	624

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HDDMT56	1052261	775	blastx.2	[Homo sapiens] (AF110775) adrenal gland protein AD-002 [Homo sapiens]	gb AAF14858.1 AF1 10775_1	100%	158	844
HVVAW0 2	1052553	776	blastx.2	sorcin CP-22 [Homo sapiens]	gb AAA60588.1	100%	59	652
HOGCS42	1052557	777	blastx.2	(AB000712) CPE- receptor [Homo sapiens]	dbj BAA22984.1	100%	226	852
HAZAA59	1052593	778	blastx.2	CUG-BP/hNab50 [Homo sapiens]	gb AAC50895.1	90%	50	745
HMALJ21	1052874	780	blastx.2	(AC002397) C9 [Mus musculus]	gb AAC36017.1	52% 49% 40%	632 243 1826	1033 650 1915
HLVAR61	1053037	781	blastx.2	nuclear protein essential for dosage compensation. [Caenorhabditis elegans]	gb AAA92286.1	64%	282	431
HLTCQ80	1053164	782	blastx.2	(AF064801) multiple membrane spanning receptor TRC8 [Homo sapiens]	gb AAC39930.1	87%	2	622
HDTDU67	1053171	783	blastx.2	54k protein (AA 1-504) [Canis familiaris]	emb CAA34385.1	100%	512	697
HMABL01	1053173	784	blastx.2	(AK001782) unnamed protein product [Homo sapiens]	dbj BAA91907.1	100%	609	1289

HACMU05	1053236	785	blastx.2	(AB002405) LAK-4p [Homo sapiens]	dbj BAA24179.2	99% 100% 60%	1804 1301 815	2631 1813 889
HOVDF79	1053369	786	blastx.2	pumilio protein [Drosophila melanogaster]	gb AAB59189.1	66% 28% 27%	39 42 42	653 518 521
HVVBJ54	1053547	787	blastx.2	ClRP [Homo sapiens]	dbj BAA11212.1	100%	95	610
HOFMU50	1053548	788	blastx.2	heparan sulfate 2- sulfotransferase [Cricetulus longicaudatus]	dbj BAA20422.1	90%	374	532
HE9MO38	1053585	789	blastx.2	phosphoenolpyruvate carboxykinase (GTP) [Homo sapiens]	emb CAA72272.1	100% 48% 53%	77 486 387	220 587 431
HOPJF55	1053725	790	blastx.2	microfibril-associated glycoprotein [Homo sapiens]	gb AAA79920.1	100%	150	698
HAOTD13	1053746	791	blastx.2	casein kinase-II beta [Oryctolagus cuniculus]	gb AAA91892.1	100%	164	808

HOCPT34	1053973	793	blastx.2	p0071 protein [Homo sapiens]	emb CAA57478.1	98%	1	2334
HFKHC64	1054015	794	blastx.2	(AF058448) herpesvirus entry protein B [Homo sapiens]	gb AAC23797.1	99%	178	1614
HOPKO37	1054085	795	blastx.2	drebrin E2 [Homo sapiens]	gb AAA16256.1	99%	2	1063
HNBVO53	1054122	796	blastx.2	p160 [Homo sapiens]	gb AAC17708.1	89% 46% 31% 36% 90% 31% 37%	50 639 1871 883 36 754 952	2332 1403 2380 1119 68 1101 1173
HCQDQ11	1054196	798	blastx.2	cytochrome c oxidase subunit 3 [Homo sapiens]	dbj BAA77671.1	93%	25	777
HTFML39	1054230	799	blastx.2	secreted cyclophilin-like protein [Homo sapiens]	gb AAA36601.1	100%	226	873
HOGCR32	1054235	800	blastx.2	similar to mouse CC1. [Homo sapiens]	dbj BAA13194.1	90% 62% 35%	15 160 128	110 204 169
HFCDL60	1054288	801	blastx.2	(AF005038) secretory carrier membrane protein [Homo sapiens]	gb AAB62723.2	99% 66%	152 2	919 46
HODEC13	1054400	802	blastx.2	(AC007059) Human homolog of Mus musculus wizL protein	gb AAD19818.1	87%	3	722



HUSYA18	1054451	803	blastx.2	[AA 4-1561] [Homo sapiens] DNA/RNA-binding protein [Homo sapiens]	gb AAA75623.1	89% 28% 76% 39% 47%	35 161 1 591 3	553 484 39 689 59
HOCON42	1054527	804	blastx.2	DYNAMIN 2.	sp P50570 DYN2_HUMAN	95% 74% 30% 28% 38%	545 162 1276 1666 2190	1588 734 1638 1914 2246
HKMNH3 7	1054550	805	blastx.2	(AL031115) ZXDA, ZXDB (zinc finger X-linked protein) [Homo sapiens]	emb CAB36858.1	50%	37	720
HPDWP21	1054662	806	blastx.2	(AF178534) talin [Homo sapiens]	gb AAF27330.1	99% 78%	63 35	797 76
HOGCS52	1054677	807	blastx.2	(AJ245621) CTL2 protein [Homo sapiens]	emb CAB75542.1	99%	36	1388
HWMCK6 0	1054751	808	blastx.2	(AF125099) HSPC038 protein [Homo sapiens]	gb AAD39916.1 AF125099_1	100%	258	485
HWLOU33	1054790	809	blastx.2	lac repressor protein (gtg start codon) [Escherichia coli]	gb AAA24052.1	96%	18	401
HKZBM58	1054812	810	blastx.2	sin3 associated polypeptide p18 [Homo sapiens]	gb AAC51322.1	100%	126	584
HTEOV06	1054813	811	blastx.2	sin3 associated polypeptide p18 [Homo sapiens]	gb AAC51322.1	95%	317	799

HTEHP29	1055174	813	blastx.2	sapiens] protein related N- terminus of the oncogene [Homo sapiens]	dbj BAA02807.1	97%	7	585
HNOJJ32	1055248	814	blastx.2	PRAJA1 [Mus musculus]	gb AAC00205.1	73% 45% 30% 55%	1084 841 100 1908	1989 1620 948 1985
HPPHF52	1055304	815	blastx.2	(AB006625) The human homolog of a mouse imprinted gene, Peg3. [Homo sapiens]	dbj BAA22956.1	98% 90% 31% 27% 30% 24% 27% 26% 30% 26% 32% 24% 20% 34% 55% 26% 28% 28% 25%	2 1290 251 62 197 11 44 62 146 5 605 278 35 221 1308 1290 1437 596 1287	1348 1682 979 1276 895 1333 1324 1273 895 856 1003 1147 979 484 1445 1676 1676 829 1769

[illegible]

				nucleotide binding protein [Homo sapiens]	18394_1	100%	76	210
HAMHN1 2	1055899	825	blastx.2	Similarity to EGF domain; cDNA EST EMBL:T02406 comes from this gene [Caenorhabditis elegans]	emb CAA94773.1	28% 36%	53 263	559 562
HODIY67	1056000	826	blastx.2	(AF167160) protein inhibitor of activated STAT-1 [Homo sapiens]	gb AAD49722.1 AF167160_1	99%	8	1957
HNTRS57	1056097	827	blastx.2	similar to ankyrin motifs; cDNA EST CEMSH89F comes from this 1 1 cDNA EST EMBL:D33056 comes from this gene; cDNA EST E	emb CAA99881.1	45%	2	853
HUKFL74	1056102	828	blastx.2	fsh-like protein [Mus musculus]	emb CAA66186.1	98%	1	168
HTEBF05	1056104	829	blastx.2	Wnt7a protein [Homo sapiens]	gb AAC51319.1	100%	9	344
HOPKD19	1056275	830	blastx.2	B-cell receptor associated protein [Homo sapiens]	gb AAB51324.1	100%	188	1084
HLICR58	1056290	831	blastx.2	(AF181467) protein Z-dependent protease inhibitor precursor [Homo sapiens]	gb AAD53962.1 AF181467_1	98%	3	932

HAAJAH48	1056400	833	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	100%	7	111
HSKJJC61	1056407	834	blastx.2	(AF095448) putative G protein-coupled receptor [Homo sapiens]	gb AAC98506.1	100% 33%	366 265	1436 327
HEEBK29	1056454	835	blastx.2	(AF018081) type XVIII collagen [Homo sapiens]	gb AAC39658.1	95% 42% 43% 42% 46% 44% 45% 44% 38% 36% 26% 38% 35% 34% 37% 31% 25% 36% 44% 44% 29% 29% 32% 40%	1036 1036 1033 1036 1264 1429 1486 1036 1594 1327 1032 743 743 668 3777 1015 3672 3572 658 728 1432 2846 565 4021	3060 2118 2133 2166 2166 2118 2118 1632 2118 2109 2117 940 934 931 4139 1251 4190 3694 771 841 1587 3154 771 4119

							784
							901
							910
							2905
							3607
							3161
							3161
							3971
							3161
							3731
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							1140
							1104
							1056
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							1050
							1230
							1368
							1566
							1566
							1692
							1800
							1632
							1859
							1608

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HCHMM1 9	1056617	836	blastx.2	Lutheran blood group glycoprotein [Homo sapiens]	emb CAA58449.1	47%	2801	2751
HE8NG02	1056625	837	blastx.2	(AL035608) dJ479J7.1 (similar to CHONDROMODULI N-1) [Homo sapiens]	emb CAB55680.1	93%	271	1011
HWHKD2 2	1056654	838	blastx.2	(AF094760) RFXANK [Homo sapiens]	gb AAC69883.1	59%	56	715
HOCPI87	1056666	839	blastx.2	protein-tyrosine- phosphatase (EC 3.1.3.48) 11A - human	pir A60345 A60345	99%	34	1125
HAAAA59	1056671	840	blastx.2	(AF151793) ALG-2 interacting protein 1 [Homo sapiens]	gb AAF08220.1 AF1 51793_1	99% 56%	162 6007	2765 6048
HOSBJ18	1056672	841	blastx.2	finger protein 1, placental - human	pir A32891 A32891	99% 68% 65% 65% 62% 61% 56% 40% 61%	752 830 914 998 590 548 482 2203 2239	2026 2095 2191 2221 1858 1774 1606 2322 2277
HUSGX12	1056736	842	blastx.2	GATA-6 [Homo sapiens]	dbj BAA22621.1	100%	2	838
HPDRG02	1056764	843	blastx.2	protein disulfide isomerase-related protein [Homo sapiens]	gb AAA58460.1	99% 42% 41%	26 26 1031	1405 523 1366



HKZBB48	1056767	844	blastx.2	(AB022663) HFB30 [Homo sapiens]	dbj BAA78677.1	40%	1055	1327
HHAWB1 9	1056774	845	blastx.2	(AF140242) encephalopsin [Homo sapiens]	gb AAD32671.1 AF1 40242_1	98%	111	1316
HHATP38	1056786	846	blastx.2	VEGF related factor isoform VRF167 precursor [Homo sapiens]	gb AAA91463.1	100%	87	650
HVVBE07	1056801	847	blastx.2	(AF003944) ovalbumin upstream promoter beta nuclear receptor rCOUPb [Rattus norvegicus]	gb AAB61297.1	97% 32%	702 185	983 328
HKAHB85	1056804	848	blastx.2	ear-2 gene product [Homo sapiens]	emb CAA31282.1	98%	4	831
HUSXA15	1056810	849	blastx.2	(AP000616) similar to RING-H2 finger protein RHA1a (AF078683) [Oryza sativa]	dbj BAA85438.1	75% 62%	300 295	205 167
HNOCH54	1056839	850	blastx.2	Protein sequence and annotation available soon via Swiss-Prot; 1 [Homo sapiens]	emb CAA62188.1	30% 26% 26% 23% 24% 24% 24% 26%	727 556 727 703 703 706 892 703	1833 1875 1779 1809 1782 1812 1827 1812

							24%	727	1782
							21%	724	1833
							24%	733	1827
							25%	883	1827
							26%	856	1824
							22%	28	1236
							23%	883	1833
							21%	865	1836
							22%	856	1827
							23%	988	1833
							22%	730	1836
							24%	4	852
							25%	1	876
							22%	715	1782
							32%	7	408
							31%	145	690
							24%	31	876
							23%	976	1830
							28%	1	456
							25%	31	852
							22%	16	885
							23%	382	1359
							23%	745	1527
							20%	22	843
							26%	1	906
							28%	7	408
							26%	1	411
							24%	424	1296
							30%	10	411
							23%	724	1251

							25%	259	690
							31%	22	411
							25%	430	1293
							34%	427	681
							21%	1054	1635
							35%	250	501
							24%	427	1251
							24%	430	1311
							30%	1	369
							25%	7	612
							23%	427	1383
							28%	352	678
							23%	730	1782
							31%	250	501
							34%	424	684
							35%	427	681
							24%	1108	1743
							32%	415	681
							26%	430	1356
							26%	313	675
							29%	427	681
							27%	322	690
							27%	322	675
							30%	430	690
							30%	343	693
							36%	1648	1830
							33%	430	684
							31%	412	675
							22%	430	1383
							22%	1369	1929

							31%	406	684
							29%	1	282
							27%	343	675
							29%	31	420
							22%	430	1401
							32%	430	681
							27%	337	675
							27%	184	411
							23%	1012	1635
							28%	406	843
							26%	337	753
							27%	1627	1896
							23%	1120	1521
							24%	997	1401
							34%	430	576
							30%	421	675
							27%	10	408
							24%	1357	1785
							31%	430	684
							29%	358	681
							24%	376	765
							25%	1618	1803
							29%	427	681
							28%	352	681
							25%	427	1308
							32%	424	678
							25%	349	690
							29%	259	501
							22%	1108	1743
							21%	364	1359

							1554
							768
							720
							1383
							693
							1308
							1311
							1236
							1383
							1458
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							1818
							1698
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							681
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							1827
							1827
							1401
							1869
							573
							771
							1077
							1953
							1635
							1527
							681
							681
							699
							1273
							424
							412
							961
							427
							430
							409
							634
							430
							1123
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							1648
							1267
							427
							421
							418
							1651
							1648
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							1288
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							499
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[illegible]

[illegible]

					20%	907	1245
					25%	1288	1584
					20%	1075	1905
					22%	1120	1383
					21%	1207	1806
					26%	409	675
					25%	28	411
					22%	1285	1509
					26%	16	435
					25%	1648	1917
					23%	1648	1812
					37%	1463	1567
					18%	1072	1530
					21%	1369	1929
					24%	1648	1782
					25%	1642	1782
					22%	1012	1401
					27%	338	454
					22%	1651	1839
					23%	1174	1509
					26%	1357	1734
					23%	1369	1626
					21%	1375	1635
					16%	754	1788
					26%	440	631
					24%	427	798
					25%	1	165
					25%	124	429
					23%	1651	1800
					22%	1648	1830



2095	2018	42%					
144	1	25%					
1314	1195	34%					
1362	979	22%					
144	67	34%					
1368	1123	30%					
1827	1648	20%					
1091	897	28%					
1458	1318	25%					
1929	1468	22%					
1827	1648	20%					
533	477	47%					
2018	1980	53%					
1236	1120	23%					
1175	993	33%					
1827	1651	22%					
1827	1648	22%					
1509	1375	24%					
2092	1910	24%					
1837	1733	25%					
1692	1648	53%					
528	397	29%					
1731	1369	20%					
2060	1878	27%					
1440	1336	31%					
1554	1327	25%					
1467	1120	23%					
1830	1648	21%					
2078	2031	43%					
1321	1256	40%					

HOCPP16	1056856	851	blastx.2	insulin-like growth factor binding protein 2 [Homo sapiens]	gb AAA03246.1	50%	814	849
						45%	1863	1928
						27%	127	393
						25%	1120	1236
						- 100%	36	650
HNOAH83	1056862	852	blastx.2	platelet-endothelial tetraspan antigen 3 [Homo sapiens]	gb AAA87064.1	100%	90	848
HE2OU10	1056875	853	blastx.2	OTK27 [Homo sapiens]	dbj BAA23363.1	100%	97	480
HODGM4 6	1056927	854	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	68%	5	229
HODFR44	1056990	855	blastx.2	(AL137516) hypothetical protein [Homo sapiens]	emb CAB70782.1	99%	11	469
						42%	14	343
						47%	20	319
						50%	71	313
						48%	14	274
						34%	14	403
						38%	14	313
						38%	38	313
HCHND12	1057009	856	blastx.2	(AF121963) receptor tyrosine kinase precursor [Gallus gallus]	gb AAD31764.1 AF121963_1	77%	136	321
						77%	299	403
						37%	6	155
						42%	48	131
						32%	45	155
						42%	63	176
						38%	54	155

HBHAC29	1057157	857	blastx.2	myelin-associated glycoprotein precursor [Homo sapiens]	gb AAA59545.1	98% 90% 39% 100%	2 427 20 786	424 759 400 815
HTPFW87	1057170	858	blastx.2	carboxyl ester lipase [Homo sapiens]	gb AAA51973.1	98% 34% 39% 35% 37% 36% 36% 34% 34% 34%	5 1620 2154 2160 2136 2160 2160 2109 2010 1977	2206 2084 1687 1690 1687 1705 1768 1681 1687 1687
HISAF60	1057212	859	blastx.2	junctional adhesion molecule [Mus musculus]	gb AAC32982.1	38%	116	988
HRABO80	1057219	860	blastx.2	(AL050143) hypothetical protein [Homo sapiens]	emb CAB43289.1	100%	1590	1937
HADDF30	1057260	861	blastx.2	transcription regulatory protein Evi-1, short form - human	pir B60191 B60191	98% 22%	1 7	1155 858
HDAAS58	1057272	862	blastx.2	(AC005003) similar to zinc finger protein MAZ [Homo sapiens]; similar to AAB04121.1 (PID:g995935)	gb AAF01349.1 AC005003_1	77%	263	676
HSDZG15	1057307	863	blastx.2	Homology with Squid retinal-binding protein	emb CAA91418.1	68% 47%	3 1212	713 1274

HPDVY52	1057393	864	blastx.2	(PIR Acc. No. 1 1 laminin alpha 5 chain [Mus musculus]	gb AAC53430.1	64% 47%	6 1165	1196 1380
HHESW02	1057478	865	blastx.2	(AF062075) leupaxin [Homo sapiens]	gb AAC16014.1	100% 34%	95 896	1252 1258
HVVBW8 4	1057561	866	blastx.2	(AB003184) ISLR [Homo sapiens]	dbj BAA22848.1	100%	342	1625
HSLJC80	1057797	868	blastx.2	prolargin [Homo sapiens]	gb AAC18782.1	32% 32% 28% 28% 29% 34%	353 899 686 1109 1663 262	1228 1573 1420 1657 1980 357
HEOAD12	1057842	869	blastx.2	(AF116865) hedgehog- interacting protein [Mus musculus]	gb AAD31172.1 AF1 16865_1	70%	533	1069
HVVB T41	1057880	870	blastx.2	(AL035587) dJ475N16.1 (CTG4A) [Homo sapiens]	emb CAB75301.1	100%	439	1272
HAZAE42	1057915	871	blastx.2	cellular retinol binding protein [Homo sapiens]	emb CAA30318.1	100%	255	659
HPRBN60	1057948	872	blastx.2	(AF002282) alpha- actinin-2 associated LJM protein [Homo sapiens]	gb AAC16672.1	99%	72	1019
HOVCZ68	1057958	873	blastx.2	follistatin 1 precursor - human	pir A32141 A32141	99%	1	987
H6EDF71	1057979	874	blastx.2	antigenic surface determinant OA3	emb CAA49196.1	99%	92	1021

HCOOF60	1058001	875	blastx.2	[Homo sapiens] ubiquitin carrier protein E2 - human	pir B42856 B42856	99%	133	855
HVVBH81	1058059	876	blastx.2	hnRNP U protein [Homo sapiens]	emb CAA46472.1	99%	227	2644
HSPTJ51	1058172	877	blastx.2	SWI/SNF complex 155 KDa subunit [Homo sapiens]	gb AAC50693.1	95% 90% 29%	51 51 45	1004 1043 1055
HOPKC80	1058174	878	blastx.2	(AJ011497) Claudin-7 [Homo sapiens]	emb CAA09626.1	99%	348	980
HOCPT58	1058250	879	blastx.2	(AF037261) SH3- containing adaptor molecule-1 [Homo sapiens]	gb AAC09244.1	100% 94%	121 19	765 126
HPCTP25	1058287	880	blastx.2	gamma- aminobutyraldehyde dehydrogenase [Homo sapiens]	gb AAB18827.1	98%	72	1553
HODKM5 2	1058305	881	blastx.2	(AB008789) grb7 protein [Homo sapiens]	dbj BAA29059.1	98%	58	999
HCONB89	1058316	882	blastx.2	acid ceramidase [Homo sapiens]	gb AAC50907.1	99%	118	1302
HBPND88	1058432	884	blastx.2	carboxyl terminal LIM domain protein [Homo sapiens]	gb AAC05580.1	99%	142	1128
H6EEO05	1058438	885	blastx.2	(AL117423) hypothetical protein [Homo sapiens]	emb CAB55915.1	99%	100	1527
HFIVR61	1058451	886	blastx.2	interferon beta 2a	emb CAA00839.1	99%	214	777

HVV/BX28	1058458	887	blastx.2	[Homo sapiens] SH3 domain-containing protein SH3P17 [Homo sapiens]	gb AAC50592.1	96% 49% 36%	53 308 104	493 466 301
HVV/Bi38	1058475	888	blastx.2	factor H [Homo sapiens]	emb CAA68704.1	99% 25% 26% 25% 28% 27%	294 336 294 501 1083 1185	2291 2264 2291 2219 2288 2099
HUKEJ46	1058539	889	blastx.2	(AF081507) signaling molecule LEFTY-B [Homo sapiens]	gb AAC33967.1	98% 99%	479 70	1165 489
HDTFT47	1058588	890	blastx.2	lymphocyte antigen [Homo sapiens]	gb AAA36236.1	98% 91%	2 258	268 398
HSSFS71	1058596	891	blastx.2	ESP1/CRP2 [Homo sapiens]	dbj BAA07703.1	95% 77% 34%	29 41 219	460 265 512
HSDJH63	1058612	892	blastx.2	(AB045180) toll-like receptor 9 [Homo sapiens]	dbj BAB19259.1	92% 100% 52% 45% 58%	192 107 128 122 131	1358 190 184 181 181
HAHGD24	1058622	893	blastx.2	laminin alpha 5 chain [Mus musculus]	gb AAC53430.1	61%	80	1024
HTAEV85	1058723	894	blastx.2	(AJ005566) SPR2H protein [Mus musculus]	emb CAA06595.1	43% 64% 50% 35%	408 2500 1784 544	256 2459 1719 485
HPMME44	1058928	895	blastx.2	HCMVUL126 [human]	emb CAA35328.1	96%	78	329

HSPSG28	1058977	897	blastx.2	herpesvirus 5] 26S protease subunit [Sus scrofa]	emb CAA61863.1	99% 88%	483 56	1679 82
HTGFW12	1059006	898	blastx.2	homolog of yeast mutL gene [Homo sapiens]	gb AAA63923.1	98% 94% 68%	83 1522 1431	1438 2670 1667
HOFMT75	1059050	899	blastx.2	cathepsin D [Homo sapiens]	gb AAA51922.1	87% 80%	7 414	456 743
HARNB17	1059085	900	blastx.2	HCMVUL126 [human herpesvirus 5]	emb CAA35328.1	98%	241	492
HPDRG65	1059102	901	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	69% 69% 83%	434 253 288	273 128 253
HAOSG15	1059145	902	blastx.2	(AF026291) chaperonin containing t-complex polypeptide 1, delta subunit; CCT- delta [Homo sapiens]	gb AAC96010.1	100%	160	1776
HHEND31	1059180	903	blastx.2	(AF117330) unknown [Rattus norvegicus]	gb AAD26207.1 AF1 17330 1	73%	175	1827
HBMSN62	1059186	904	blastx.2	ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1]	gb AAB00807.1	86%	1102	1251
HOVCJ46	1059241	905	blastx.2	(AF037272) WAP four-disulfide core	gb AAC40055.1	87% 70%	41 175	214 336

HWLEP14	1059394	906	blastx.2	domain protein [Rattus norvegicus] (AF117646) long CBL-3 protein [Homo sapiens]	gb AAD34341.1 AF117646_1	99%	92	1348
HDABR73	1059532	908	blastx.2	bikunin [Homo sapiens]	gb AAC02781.1	100%	436	1191
HOGAJ24	1059626	909	blastx.2	Similar to Human testican (S33293) [Homo sapiens]	dbj BAA13404.1	100%	427	1698
HTJMV05	1059692	910	blastx.2	protein tyrosine phosphatase [Homo sapiens]	gb AAA50779.1	100%	5	685
HOOIL70	1059710	911	blastx.2	hematopoietic cell phosphatase [Homo sapiens]	gb AAA35963.1	100% 37% 32% 30%	212 188 2209 2219	1996 508 2310 2296
HUNAE87	1059743	912	blastx.2	(AF062317) p120 catenin isoform 1B [Homo sapiens]	gb AAC39802.1	99%	158	955
HTPHO01	1059764	913	blastx.2	(AF169284) LIM and cysteine-rich domains protein 1 [Homo 1]	gb AAF34411.1	97%	125	1048
HDPWK69	1059784	914	blastx.2	(AL031629) similar to RNA recognition motif. (aka RRM, RBD, or 1 1)	emb CAA20980.2	52%	275	496



HPCOK03	1059849	915	blastx.2	(AF008551) aurora-related kinase 1 [Homo sapiens]	gb AAC12708.1	99%	59	1267
HOOJC15	1059967	917	blastx.2	(AL117639) hypothetical protein [Homo sapiens]	emb CAB56027.1	98%	575	1216
HODFG47	1059969	918	blastx.2	(AF132856) suppressor of G2 allele of skp1 homolog [Homo sapiens]	gb AAD30062.1	100%	215	1213
HBIPC05	1060137	919	blastx.2	(AF078798) extracellular signal-regulated kinase 7; ERK7 [Rattus norvegicus]	gb AAD12719.1	62%	23	832
HOPJJ32	1060193	920	blastx.2	replication protein A 14kDa subunit [Homo sapiens]	gb AAA58350.1	100%	447	635
HNOBN20	1060382	921	blastx.2	unknown protein [Homo sapiens]	gb AAA88036.1	43% 47%	1362 1487	1150 1380
HOCPX74	1060391	922	blastx.2	(AL137714) hypothetical protein [Homo sapiens]	emb CAB70887.1	91%	18	656
HTEPP27	1060415	923	blastx.2	PF20 [Chlamydomonas reinhardtii]	gb AAB41727.1	39%	207	581
HL YAJ79	1060495	924	blastx.2	ATPase subunit 6 [Homo sapiens]	dbj BAA07295.1	79%	197	808
HCOOQ11	1060656	925	blastx.2	sialidase [Homo sapiens]	emb CAA55356.1	70% 100%	1 189	189 308

HWMGI51	1060711	926	blastx.2	hypothetical protein [Synechocystis sp.]	dbj BAA10294.1	41%	16	615
HDPJG33	1060780	927	blastx.2	GTP binding protein [Mus musculus]	emb CAA36803.1	78% 68% 37%	543 439 933	863 699 1061
HL YAE20	1060967	928	blastx.2	hypothetical protein 2 (rRNA external transcribed spacer) - 1	pir S12206 S12206	67%	1002	1259
HKZAR86	1060972	929	blastx.2	ERF-2 [Homo sapiens]	emb CAA55592.1	99%	322	1302
HAOTX62	1061036	930	blastx.2	SPIN protein [Homo sapiens]	emb CAA75163.1	100%	77	298
HOCQG58	1061180	931	blastx.2	26S PROTEASOME REGULATORY SUBUNIT S2 (P97) (TUMOR 1 1	sp Q13200 PSD2_HU MAN	100%	63	2786
HOFNH33	1061185	932	blastx.2	MRAS2 gene product [Mucor racemosus]	gb AAA83994.1	31%	260	823
HAJAJQ63	1061238	933	blastx.2	matrin 3 [Rattus norvegicus]	gb AAB63955.1	90% 94% 54% 98% 24% 31% 35% 35% 40%	1038 293 2361 3308 2634 2646 1755 3362 3837	2570 1105 2810 3478 2813 2759 1847 3454 3896
HVVVBK70	1061258	934	blastx.2	(AJ000414) Cdc42- interacting protein 4 [Homo sapiens]	emb CAA04062.1	92% 100% 28%	653 31 627	1276 468 1055
HVVBA82	1061332	935	blastx.2	(AL022313)	emb CAA18439.1	100%	3	500

HWLLG38	1061388	936	blastx.2	dJ1119A7.1 (mitochondrial thioredoxin) [Homo sapiens]	dbj BAA01706.1	100%	114	692
HTPCH84	1061466	937	blastx.2	neurocalcin [Bos taurus] (AF104419) decoy receptor 3 [Homo sapiens]	gb AAD03056.1	99% 100%	103 938	945 1000
HLGDA34	1061543	939	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	71% 73%	3 1766	254 1641
HAICB08	1061629	940	blastx.2	rhoHP1 [Homo sapiens]	dbj BAA19652.1	100%	3	326
HVVAW6 0	1061694	941	blastx.2	(AF151882) CGI-124 protein [Homo sapiens]	gb AAD34119.1 AF1 51882.1	100%	244	741
HPDVB50	1061708	942	blastx.2	(AJ002030) progesterone binding protein [Homo sapiens]	emb CAA05152.1	100%	33	206
HAZAY40	1061765	943	blastx.2	tight junction (zonula occludens) protein ZO- 1 [Homo sapiens]	gb AAA02891.1	100%	3	1631
HACMZ51	1061766	944	blastx.2	contains 10 ankyrin- like repeats; similar to human ankyrin, 1 bursaria Chlorella virus 1]	gb AAC96986.1	33% 28% 32% 30%	118 73 100 88	957 726 657 561
HUXAL63	1061790	945	blastx.2	100 kDa protein [Rattus norvegicus]	emb CAA45756.1	98%	2	1300

HLCLX57	1061886	946	blastx.2	latent transforming growth factor-beta- binding protein-2, 1 1	gb AAB37459.1	99%	3	953
						37%	447	941
						32%	27	398
						34%	21	398
						45%	696	941
						40%	693	914
						41%	696	941
						42%	681	929
						38%	666	941
						36%	693	914
						32%	666	989
						34%	684	929
						34%	657	929
						34%	666	941
						43%	12	167
						35%	696	929
						45%	6	149
						47%	15	149
						31%	9	377
						46%	3	155
						35%	678	914
						40%	3	149
						29%	9	365
						35%	3	155
						38%	3	143
						40%	246	371
						41%	837	944
						34%	3	143
						29%	15	188
						28%	99	215

HMALF63	1061935	947	blastx.2	factor activating exoenzyme S [Bos taurus]	gb AAA30514.1	35%	118	252
						22%	280	483
						57%	427	468
HACMR36	1062057	948	blastx.2	(AK000963) unnamed protein product [Homo sapiens]	dbj BAA91446.1	86%	181	1290
						99%	29	391
						27%	1141	1323
						34%	1460	1528
						33%	1710	1805
						27%	1883	2170
						50%	1506	1553
HAOSM08	1062079	949	blastx.2	(AF059617) serum- inducible kinase [Homo sapiens]	gb AAC14573.1	99%	284	2338
HTEFM89	1062084	950	blastx.2	(AF162680) STRIN protein [Homo sapiens]	gb AAD46623.2 AF1 62680_1	99%	500	1234
HCHAK72	1062123	951	blastx.2	(AF113596) mosaic serine protease epitheliasin [Mus musculus]	gb AAF21308.1	47%	95	1165
HPAME12	1062139	952	blastx.2	retinoic acid- and interferon-inducible 58K protein RI58 [Homo sapiens]	gb AAA84934.1	100%	209	1654
HCE4F10	1062309	954	blastx.2	(AL050060) hypothetical protein [Homo sapiens]	emb CAB43253.1	97%	798	1535

HBCBE63	1062328	955	blastx.2	(AF007170) unknown [Homo sapiens]	gb AAC39582.1	100% 69% 87% 57%	191 87 25 1	790 251 96 63
HSSJO19	1062346	956	blastx.2	endonuclease G [Bos taurus]	emb CAA51320.1	97% 24%	361 1093	248 887
HE8NQ23	1062369	957	blastx.2	(AF062006) orphan G protein-coupled receptor HG38 [Homo sapiens]	gb AAC28019.1	99% 100% 87%	574 416 171	1419 571 263
HTELJ95	1062431	958	blastx.2	(AB006679) ATP binding protein [Homo sapiens]	dbj BAA21881.1	99%	272	949
HTPCP50	1062435	959	blastx.2	(AF111069) latrophilin 2 splice variant baaae [Bos taurus]	gb AAD05305.1	38% 47%	417 1997	2129 2044
HFKIT82	1062544	961	blastx.2	(AF152495) protocadherin beta 2 [Homo sapiens]	gb AAD43756.1 AF1 52495_1	98% 30% 26%	2 20 26	1663 1297 1267
HE2LW42	1062574	962	blastx.2	(AF090934) PRO0518 [Homo sapiens]	gb AAF24048.1 AF0 90934_1	100%	1267	1079
HOGCE44	1062586	963	blastx.2	protein tyrosine phosphatase (EC 3.1.3.48) [Homo sapiens]	gb AAA36528.1	99%	156	2561
HOVJJ72	1062626	964	blastx.2	latent TGF-beta binding protein-4 [Homo sapiens]	emb CAA73944.1	85% 91% 85%	547 203 1	1782 559 204

[illegible]

HODBT14	1062628	965	blastx.2	guanine nucleotide exchange factor [Homo sapiens]	gb AAA35914.1	37%	215	346
						37%	212	307
						42%	209	271
						29%	4	210
						55%	215	265
						30%	212	310
						29%	841	921
						32%	1766	1930
						32%	1667	1861
						58%	230	265
						29%	215	460
						56%	1764	1838
						58%	1792	1842
						63%	1859	1891
						40%	1391	1450
						37%	12	95
						37%	254	406
						66%	549	584
						87%	838	569
						34%	1633	1421
						69%	2007	1969
						30%	1621	1421
						38%	1024	938
						30%	1552	1352
						63%	1525	1493
						70%	1295	1266
HODBT14	1062628	965	blastx.2	guanine nucleotide exchange factor [Homo sapiens]	gb AAA35914.1	100%	15	320
HBOEB83	1062629	966	blastx.2	thrombospondin-4	emb CAA79635.1	95%	4	1392



HODCT96	1062631	967	blastx.2	[Homo sapiens] repressor transcriptional factor [Homo sapiens]	gb AAA79179.1	74% 74% 73% 56% 40% 69% 69% 41% 78% 67% 66% 71% 73% 77% 71% 75% 70% 69% 71% 64% 63% 72% 38% 49%	2 2 2 2 2 2 2 2 250 2 2 250 250 259 250 250 250 250 250 250 250 2 253	247 247 247 337 514 247 247 490 468 247 259 468 462 468 468 456 471 468 468 468 468 423 313 459
HTXJE60	1062655	968	blastx.2	(AK000642) unnamed protein product [Homo sapiens]	dbj BAA91301.1	50%	171	1112
HUSIQ62	1062679	969	blastx.2	high mobility group 2 protein [Homo sapiens]	gb AAA58659.1	100% 31%	188 143	814 472

HKBAK29	1062718	971	blastx.2	(AF161525) HSPC177 [Homo sapiens]	gb AAF29140.1 AF1 61525_1	100% 93%	975 42	1562 140
HPMCX26	1062743	972	blastx.2	LIMK-2 [Homo sapiens]	dbj BAA08312.1	97%	365	649
HFKHF51	1062785	973	blastx.2	(AF177203) cerebral cell adhesion molecule [Homo sapiens]	gb AAD51367.1 AF1 77203_1	99%	360	1910
HUCPE28	1062795	974	blastx.2	extensin [Volvox carteri]	emb CAA46283.1	36% 36% 36% 38% 27%	728 728 735 734 119	1063 958 1055 949 460
HPWAH30	1062840	975	blastx.2	zinc finger protein [Homo sapiens]	gb AAA59469.1	98% 77% 76% 76% 81% 75% 77% 75% 74% 76% 74% 75% 74%	1 1 1 1 1 1 1 1 1 1 10 1	705 705 705 705 666 702 696 705 705 705 705 705

74%	1	705
72%	1	705
73%	1	705
72%	1	705
71%	1	705
72%	1	705
71%	1	705
71%	1	705
71%	1	705
71%	1	705
70%	1	705
71%	1	705
71%	1	705
71%	1	705
67%	1	705
63%	1	705
59%	163	705
52%	702	815
51%	723	815
51%	723	815
42%	702	815
48%	723	815
42%	702	815
45%	723	815
39%	702	815
45%	723	815
39%	702	815
39%	702	815
46%	726	815
45%	723	815

H6EDQ51	H6EDQ51R	976	blastx.2	cytochrome b [Homo sapiens]	gb AAA19775.1	36%	702	815
HA5AU29	HA5AU29R	977	blastx.2	amyloid-beta protein [Homo sapiens]	gb AAB59501.1	42%	723	806
HACBX26	HACBX26R	978	blastx.2	NADH dehydrogenase subunit 1 [Homo sapiens]	dbj BAA07290.1	36%	702	815
HACMH72	HACMH72R	982	blastx.2	TraC protein (gtg start codon) [Plasmodium falciparum]	gb AAA24905.1	41%	723	815
HACMS55	HACMS55R	985	blastx.2	(AF013215) ribosomal protein S2 [Bos taurus]	gb AAB65437.1	41%	723	815
HACMX77	HACMX77R	986	blastx.2	protein kinase C inhibitor-1 [Homo sapiens]	gb AAA82926.1	42%	726	809
HACMZ45	HACMZ45R	987	blastx.2	Keratin 8 [Homo sapiens]	emb CAA52882.1	43%	726	815
						43%	726	815
						95%	10	210
						85%	2	190
						89%	2	259
						93%	35	478
						100%	3	116
						100%	42	419
						100%	3	245

HACND54	HACND54 R	988	blastx.2	(AC003956) acetolactate synthase [Homo sapiens]	gb AAB94632.1	67%	2	466
HACNF21	HACNF21R	991	blastx.2	40-kDa keratin protein [Homo sapiens]	gb AAA36044.1	78%	267	404
HACNF41	HACNF41R	992	blastx.2	cytokeratin 8 (279 AA) [Homo sapiens]	emb CAA31376.1	86%	3	608
HACNI47	HACNI47R	993	blastx.2	ribosomal protein S17 [Homo sapiens]	gb AAA60284.1	100%	2	91
HADET44	HADET44R	996	blastx.2	URF 1 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24026.1	95%	96	500
HAHHD12	HAHHD12 R	998	blastx.2	Spinophilin [Rattus norvegicus] (AF016252)	gb AAB72005.1	95% 92%	62 481	481 522
HALSG11	HALSG11R	999	blastx.2	cytochrome C oxidase; match to P14406 (PID:g117121) [Homo sapiens]	gb AAC12952.1	96%	1	96
HAOSB87	HAOSB87R	1002	blastx.2	delta- aminolevulinate synthase (housekeeping) [Homo sapiens]	emb CAA39794.1	74% 74%	116 54	376 134
HAOSE70	HAOSE70R	1004	blastx.2	acidic ribosomal phosphoprotein (P1) [Homo sapiens]	gb AAA36471.1	73%	1	549
HAOSF68	HAOSF68R	1005	blastx.2	laminin-binding protein [Homo sapiens]	gb AAA36161.1	88% 55%	166 273	267 359
						90%	76	576

HAOSG95	HAOSG95 R	1006	blastx.2	ribosomal protein S20 [Homo sapiens]	gb AAA60286.1	82%	111	452
HAOSI79	HAOSI79R	1007	blastx.2	ribosomal protein L7 [Homo sapiens]	gb AAA03081.1	95%	10	330
HAOSJ27	HAOSJ27R	1008	blastx.2	polyubiquitin - tobacco hornworm (fragments)	pir JH0302 JH0302	100% 100% 75% 73% 49% 39% 72%	2 2 135 135 156 223 223	142 142 233 224 332 405 255
HAOSJ33	HAOSJ33R	1009	blastx.2	lactate dehydrogenase- A [Homo sapiens]	emb CAA26879.1	95%	3	353
HAOSK38	HAOSK38 R	1011	blastx.2	Ku protein subunit [Homo sapiens]	gb AAA36155.1	100%	4	303
HAOSL36	HAOSL36R	1012	blastx.2	S- adenosylhomocysteine hydrolase [Homo sapiens]	gb AAA51681.1	94% 96% 71% 88%	30 224 336 1	200 379 494 27
HAOSL47	HAOSL47R	1013	blastx.2	(AF155581) proteasome subunit beta 7 [Danio rerio]	gb AAD53521.1 AF1 55581_1	91% 93% 55% 80%	86 4 432 340	343 96 572 429
HAOTE06	HAOTE06R	1021	blastx.2	(AF132947) CGI-13 protein [Homo sapiens]	gb AAD27722.1 AF1 32947_1	98%	2	451
HAOTF90	HAOTF90R	1023	blastx.2	carboxyl methyltransferase [Homo sapiens]	dbj BAA02991.1	94%	3	170
HAOTI07	HAOTI07R	1026	blastx.2	HL23 ribosomal protein [Homo sapiens]	emb CAA39417.1	96% 84%	36 398	365 454

HAOTT79	HAOTT79R	1027	blastx.2	CYTOSKELETON- ASSOCIATED PROTEIN CKAPI (TUBULIN FOLDING COFACTOR B).	sp Q99426 CKAP_H UMAN	80%	361	405
HAOTU79	HAOTU79 R	1028	blastx.2	ME491 antigen precursor (AA -1 to 237) [Homo sapiens]	emb CAA30792.1	97%	57	452
HAOTW22	HAOTW22 R	1029	blastx.2	KERATIN, TYPE II CYTOSKELETAL 8 (CYTOKERATIN 8) (K8) (CK 1)	sp P05787 K2C8_HU MAN	100%	1	201
HAPNK45	HAPNK45 R	1032	blastx.2	cytochrome c oxidase subunit 1 [Homo sapiens]	dbj BAA07292.1	90% 79% 90% 100%	2 274 473 261	262 516 535 281
HAPPR43	HAPPR43R	1033	blastx.2	hypothetical 18K protein - goldfish mitochondrion	pir JC1348 JC1348	42%	146	472
HAQML40	HAQML40 R	1035	blastx.2	ribosomal protein L39 [Homo sapiens]	dbj BAA11465.1	98%	106	258
HAUAK54	HAUAK54 R	1037	blastx.2	CAG-isl 7 [Homo sapiens]	gb AAC16021.1	62%	12	245
HAZAC68	HAZAC68 R	1042	blastx.2	lumican [Homo sapiens]	gb AAA91639.1	97% 26% 36%	3 3 3	587 551 500
HAZAD13	HAZAD13 R	1043	blastx.2	human elongation factor-1-delta [Homo sapiens]	emb CAA79716.1	74% 60%	53 250	478 555

HAZAE44	HAZAE44R	1045	blastx.2	fibronectin precursor [Homo sapiens]	emb CAA26536.1	98% 46% 40% 39% 36% 35% 33%	84 105 105 123 69 105 18	512 335 413 347 392 344 347
HAZAG23	HAZAG23 R	1046	blastx.2	unnamed protein product [Homo sapiens]	emb CAA62211.1	96%	2	466
HAZAI89	HAZAI89R	1051	blastx.2	KERATIN, TYPE II CYTOSKELETAL 8 (CYTOKERATIN 8) (K8) (CK 1)	sp P05787 K2C8_HU MAN	100%	72	260
HAZAJ72	HAZAJ72R	1052	blastx.2	protein arginine N- methyltransferase [Rattus norvegicus]	gb AAC52622.1	97% 58% 81% 34%	1 497 579 537	537 580 611 605
HAZAQ80	HAZAQ80 R	1053	blastx.2	(AF064205) dynactin 1 p135 isoform [Homo sapiens]	gb AAD55812.1	100%	84	389
HAZBI39	HAZBI39R	1056	blastx.2	(AL031427) dJ167A19.3 (novel protein) [Homo sapiens]	emb CAB46723.1	100%	83	424
HAZBI69	HAZBI69R	1057	blastx.2	transmembrane protein	emb CAA66947.1	100%	3	323



HBJHY72	HBJHY72R P00B	1063	blastx.2	[Oryctolagus cuniculus] (AL117434) hypothetical protein [Homo sapiens]	emb CAB55922.1	98%	1	297
HBXCG52	HBXCG52 R	1065	blastx.2	(AK001079) unnamed protein product [Homo sapiens]	dbj BAA91496.1	89% 46%	371 457	427 606
HCAC53	HCAC53R P00A	1067	blastx.2	histone H3 [Spisula solidissima]	gb AAA29965.1	90% 100% 86%	313 116 506	507 244 574
HCHAJ85	HCHAJ85R	1068	blastx.2	hemolysin [Acanthamoeba polyphaga]	gb AAA58585.1	61%	206	57
HCHMM7 1	HCHMM71 R	1069	blastx.2	(AC003040) unknown protein [Arabidopsis thaliana]	gb AAC23757.1	58% 44%	2 249	244 329
HCLBH21	HCLBH21R	1071	blastx.2	cytochrome c oxidase subunit 1 [Pan troglodytes]	dbj BAA85270.1	91% 88%	3 415	416 600
HCOMA72	HCOMA72 R	1073	blastx.2	NuMA protein - human	pir S33413 S33413	100%	115	273
HCOMB04	HCOMB04 R	1074	blastx.2	prolylcarboxypeptidase [Homo sapiens]	gb AAA99891.1	98% 55%	77 702	718 782
HCOMD38	HCOMD38 R	1075	blastx.2	phospholipid hydroperoxide glutathione peroxidase [Homo sapiens]	emb CAA50793.1	100%	39	275
HCOMD61	HCOMD61	1076	blastx.2	(AF047470) malate	gb AAC03787.1	87%	1	216

	R				dehydrogenase precursor [Homo sapiens]		75%	240	287
HCOMF52	HCOMF52 R	1078	blastx.2		hypothetical protein 384D8_6 [Homo sapiens]	gb AAB03345.1	80%	14	655
HCOMG28	HCOMG28 R	1079	blastx.2		elongation factor 1 alpha [Oryctolagus cuniculus]	gb AAA18502.1	71% 100%	100 54	522 98
HCOMG40	HCOMG40 R	1080	blastx.2		ribosomal protein L15 [Rattus norvegicus]	emb CAA55026.1	76%	35	646
HCOMI30	HCOMI30R	1083	blastx.2		ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1	85%	315	491
HCOMI37	HCOMI37R	1084	blastx.2		similar to 40S ribosomal protein; cDNA EST CEMSA13F comes from 1 1 gene; cDNA EST EMBL:M79582 comes from this gene; cDN	emb CAA86061.1	59% 66% 64%	304 89 518	540 301 568
HCOML11	HCOML11 R	1085	blastx.2		fused-ccdB [Escherichia coli]	emb CAA71575.1	90%	273	470
HCOMM55	HCOMM55 R	1087	blastx.2		The polymorphysm (RFLP) of this gene is associated with 1 1	dbj BAA03853.1	100%	298	176
HCOMO58	HCOMO58 R	1088	blastx.2		(AF042857) lung cancer antigen NY-LU-12 variant A [Homo	gb AAC05826.1	98%	4	282

HCOMW5 2	HCOMW52 RP00B	1089	blastx.2	sapiens] (AB032025) ubiquitin [Canis familiaris]	dbj BAA83996.1	99%	60	443
HCOMX77	HCOMX77 R	1090	blastx.2	HETEROGENEOUS NUCLEAR RIBONUCLEOPROTE IN A1 1 (HNRNP CORE PROTEIN A1).	sp P09651 ROA1_H UMAN	65% 96% 100% 57% 53% 48% 34% 57% 62% 44% 45% 75% 50%	133 5 81 5 8 5 142 11 81 5 11 81 84	315 82 122 82 76 82 291 82 128 82 79 116 119
HCONC18	HCONC18 RP00B	1091	blastx.2	cathepsin D [Homo sapiens]	gb AAA51922.1	87% 91% 83% 71%	3 190 335 426	188 333 424 467
HCONK56	HCONK56 R	1093	blastx.2	ribosomal protein L18 [Homo sapiens]	gb AAA16329.1	100% 57%	104 567	616 665
HCONL49	HCONL49 R	1095	blastx.2	ribosomal protein S13 [Homo sapiens]	dbj BAA13528.1	98%	3	221
HCONO17	HCONO17 R	1099	blastx.2	(AC004240) match to Z43555 (NID-g572788) [Homo sapiens]	gb AAC04502.1	81% 71%	4 65	69 148
HCONO25	HCONO25 R	1100	blastx.2	5,10- methenyltetrahydrofolate synthetase [Homo]	gb AAC41945.1	77% 87% 100%	251 147 3	610 245 68

HCONP44	HCONP44R	1101	blastx.2	sapiens] H <sup>+</sup> -transporting ATP synthase (EC 3.6.1.34) 58K chain - human	pir A33281 A33281	51%	481	579
HCONR31	HCONR31 R	1104	blastx.2	ezrin (AA 1-586) [Homo sapiens]	emb CAA35893.1	98%	3	281
HCONU03	HCONU03 R	1105	blastx.2	glyceraldehyde 3- phosphate dehydrogenase (EC 1.2.1.12) [Homo sapiens]	gb AAA52496.1	92% 92% 53%	3 511 611	518 627 688
HCONW6 2	HCONW62 R	1106	blastx.2	Human tetracycline transporter-like protein mRNA [Homo sapiens]	emb CAA92577.1	77% 85% 69% 36%	1 330 529 6	297 473 645 119
HCOOG32	HCOOG32 R	1111	blastx.2	ornithine decarboxylase antizyme [Homo sapiens]	dbj BAA13497.1	97%	5	334
HCOOG37	HCOOG37 R	1112	blastx.2	ribosomal protein S17 [Homo sapiens]	gb AAA60284.1	92%	78	482
HCOOI71	HCOOI71R	1114	blastx.2	calpactin I light chain [Bos taurus]	gb AAA30423.1	100%	64	354
HCOOI79	HCOOI79R	1115	blastx.2	beta-subunit [Bos taurus]	emb CAA29094.1	77% 50%	215 681	703 740
HCOOM18	HCOOM18 R	1116	blastx.2	keratin 18 [Homo sapiens]	gb AAA59461.1	95% 100%	14 616	640 690
HCOOM73	HCOOM73 R	1117	blastx.2	claudin-10 [Homo sapiens]	gb AAC79506.1	90%	26	694
HCOOQ46	HCOOQ46	1118	blastx.2	protein-tyrosine	emb CAA48338.1	100%	2	166

	R			phosphatase [Homo sapiens]						
HCOOT43	HCOOT43 R	1120	blastx.2	neutral protease alpha subunit [Homo sapiens]	gb AAA35646.1	100%	95	439		
HCOOT68	HCOOT68 R	1121	blastx.2	(AF019661) zeta proteasome chain; PSMA5 [Mus musculus]	gb AAC69149.1	99% 77%	171 473	470 652		
HCOOU56	HCOOU56 R	1122	blastx.2	(AF143815) ribosomal protein [Bos taurus]	gb AAD33912.1 AF143815_1	55% 62% 52%	30 233 698	515 406 748		
HCOOW72	HCOOW72 R	1123	blastx.2	keratin 18 [Homo sapiens]	gb AAA59461.1	78%	49	552		
HCOOX48	HCOOX48 R	1126	blastx.2	(AF095770) PTH-responsive osteosarcoma D1 protein [Homo sapiens]	gb AAD25980.1 AF095770_1	87% 83%	218 330	310 365		
HCOOY43	HCOOY43 R	1127	blastx.2	THIOREDOXIN PEROXIDASE 1 (THIOREDOXIN-DEPENDENT PEROXIDE 1 (NATURAL KILLER CELL ENHANCING FACTOR B) (NKEF-B).	sp P32119 TDX1_HUMAN	91%	22	426		
HCOPB03	HCOPB03R	1129	blastx.2	ribosomal protein L19 - rat	pir A56846 A56846	98% 62%	11 367	367 573		

HCOPC45	HCOPC45R	1130	blastx.2	homologue of yeast IPP isomerase [Homo sapiens]	emb CAA34890.1	96%	3	89
HCOPD67	HCOPD67R	1131	blastx.2	ubiquitin conjugating-protein [Oryctolagus cuniculus]	gb AAA31492.1	91%	104	541
HCOPE27	HCOPE27R	1132	blastx.2	serine protease homolog=NES1 [human, mammary epithelial cells, 76N, Peptide, 276 aa] [Homo sapiens]	gb AAB46780.1	99%	2	400
HCOPI09	HCOPI09R A	1134	blastx.2	fused; toxic gene [synthetic construct]	emb CAA67127.1	77%	62	310
HCOPO34	HCOPO34R	1136	blastx.2	(AF026246) HERV-E envelope glycoprotein [Homo sapiens]	gb AAC52076.1	65%	122	337
HCOPO88	HCOPO88R	1138	blastx.2	'human homologue of rat ribosomal protein L9' [Homo sapiens]	dbj BAA03401.1	74%	4	507
HCOPV41	HCOPV41R	1139	blastx.2	MEMD protein [Homo sapiens]	emb CAA71256.1	97%	3	593
HCOPZ15	HCOPZ15R	1140	blastx.2	(AL031228) dJ1033B10.9 (Short-chain alcohol dehydrogenase family member (HKE6, RING2)) [Homo sapiens]	emb CAA20237.1	96% 83%	7 572	579 625

HCOQA38	HCOQA38 R	1141	blastx.2	sapiens] hBD-1 [Homo sapiens]	emb CAA63405.1	100%	68	271
HCOQB12	HCOQB12 R	1143	blastx.2	(AC005600) tuberin [Homo sapiens]	gb AAC34210.1	100% 84%	4 308	309 346
HCOQD29	HCOQD29 R	1147	blastx.2	S3 ribosomal protein [human, colon, Peptide, 243 aa] [Homo sapiens]	gb AAB19349.1	93% 55% 60%	16 552 632	588 707 730
HCOQD38	HCOQD38 R	1148	blastx.2	HMG1 protein (AA 1 - 215) [Bos taurus]	emb CAA31284.1	95%	112	636
HCOQD49	HCOQD49 R	1149	blastx.2	H+-transporting ATP synthase (EC 3.6.1.34) gamma chain precursor - bovine	pir A32019 PWBOG	89% 65%	35 513	532 692
HCOQG37	HCOQG37 R	1151	blastx.2	1-8D [Homo sapiens]	emb CAA40625.1	99% 100%	51 386	386 409
HCOQH46	HCOQH46 R	1153	blastx.2	mucin MUC5B [Homo sapiens]	gb AAC51343.1	100% 64%	95 324	343 365
HCOQJ06	HCOQJ06R	1156	blastx.2	37kD Laminin receptor precursor /p40 ribosomal associated protein [Gallus gallus]	emb CAA64147.1	85% 58%	26 352	361 474
HCOQJ07	HCOQJ07R	1157	blastx.2	laminin-binding protein [Homo sapiens]	gb AAA36161.1	88%	6	656
HCOQJ79	HCOQJ79R	1159	blastx.2	elongation factor 1 alpha [Oryctolagus cuniculus]	gb AAA18502.1	83%	1	471
HCOQK86	HCOQK86 R	1160	blastx.2	(AF038129) polyubiquitin [Ovis]	gb AAB92373.1	94% 94%	4 4	456 456

				aries]				93%	28	456
HCOQL87	HCOQL87 R	1161	blastx.2	glutathione S- transferase-pi [Homo sapiens]	gb AAA56823.1			97% 56% 30% 30%	4 440 440 440	255 487 556 556
HCOQM87	HCOQM87 R	1162	blastx.2	DRPLA protein [Mus musculus]	dbj BAA13450.1			56% 41%	24 328	521 630
HCOQQO79	HCOQQO79 R	1163	blastx.2	TIMP [Homo sapiens]	emb CAA00898.1			52% 47%	3 17	278 307
HCOQP32	HCOQP32R	1164	blastx.2	elongation factor 1-alpha [Homo sapiens]	gb AAA52367.1			99% 61%	2 561	574 608
HCOQS11	HCOQS11R	1165	blastx.2	acidic ribosomal phosphoprotein (P2) [Homo sapiens]	gb AAA36472.1			95% 64%	15 151	149 381
HCOQU92	HCOQU92 R	1167	blastx.2	protein translocation complex beta subunit [Canis familiaris]	gb AAA19639.1			78%	102	398
HCOQV27	HCOQV27 R	1168	blastx.2	B4-2 protein [Homo sapiens]	gb AAA85576.1			100% 100%	91 272	270 301
HCOQX38	HCOQX38 R	1169	blastx.2	catechol O-methyltransferase [Homo sapiens]	emb CAA81263.1			96%	3	239
HCOQY33	HCOQY33 R	1170	blastx.2	(AB000910) ribosomal protein [Sus scrofa]	dbj BAA19210.1			96% 91% 80% 100%	32 421 495 1	421 489 539 30
HCOQZ86	HCOQZ86	1173	blastx.2	MHC class II HLA-	gb AAA59782.1			96%	49	321
								92%	106	357



	R			DR-beta-1 [Homo sapiens]			77%	351	470
HCORB20	HCORB20 R	1175	blastx.2	(AB012122) TIP49 [Homo sapiens]	dbj BAA28169.1		98%	68	292
HCORB66	HCORB66 R	1177	blastx.2	ribosomal protein L28 [Homo sapiens]	gb AAA85657.1		94%	75	482
HCORI18	HCORI18R	1178	blastx.2	hnRNP B1 protein [Homo sapiens]	dbj BAA06031.1		100% 100% 56% 49% 50% 44% 43% 39%	120 2 126 123 129 120 132 2	317 124 305 305 305 317 317 124
HCORI25	HCORI25R	1179	blastx.2	pm5 protein [Homo sapiens]	emb CAA40655.1		98%	3	419
HCQCR82	HCQCR82 R	1180	blastx.2	NADH dehydrogenase subunit 3 [Homo sapiens]	dbj BAA77672.1		91% 90%	3 247	245 276
HCRMIE42	HCRMIE42 R	1181	blastx.2	IGF binding protein-2 [Sus scrofa]	gb AAC48728.1		87% 59% 47%	1 297 332	369 416 427
HDABR53	HDABR53 R	1182	blastx.2	ribosomal protein L23a [Homo sapiens]	gb AAA03341.1		97%	38	463
HDTAQ74	HDTAQ74 R	1185	blastx.2	(AF112208) 13kDa differentiation-associated protein [Homo sapiens]	gb AAF17196.1 AF112208_1		61% 90% 53% 100%	115 38 326 273	408 136 409 293
HDTBP08	HDTBP08R	1186	blastx.2	UbcH5C [Homo sapiens]	gb AAA91461.1		97%	255	470

HD TDB88	HD TDB88 R	1188	blastx.2	cytochrome c oxidase subunit 1 [Pan troglodytes]	dbj BAA85270.1	89% 88%	27 259	275 441
HE8QX44	HE8QX44R	1190	blastx.2	(AF010472) alpha- amidating monooxygenase [Homo sapiens]	gb AAD01439.1	93% 95% 80%	49 272 475	288 475 549
HE9QU94	HE9QU94R	1191	blastx.2	alligator Wilm's tumour protein [Alligator mississippiensis]	emb CAA59735.1	100%	3	170
HEAHF02	HEAHF02R	1192	blastx.2	(AC004044) predicted protein of unknown function [Arabidopsis thaliana]	gb AAD15346.1	37%	62	376
HEEAY40	HEEAY40R	1193	blastx.2	hypothetical protein 2 (rRNA external transcribed spacer) - 1	pir S12206 S12206	100%	3	128
HEGAF68	HEGAF68R	1194	blastx.2	URF 3 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24033.1	89% 89%	3 178	179 321
HFABK01	HFABK01R	1196	blastx.2	NADH dehydrogenase subunit 2 [Homo sapiens]	dbj BAA07291.1	80% 69%	2 186	190 284
HFIBG63	HFIBG63R	1198	blastx.2	cytokine SDF-1-beta [Homo sapiens]	gb AAA97434.1	96%	152	406
HFIBJ15	HFIBJ15R	1199	blastx.2	cytochrome oxidase subunit II [Homo sapiens]	gb AAA20843.1	93%	2	517
HFIXK57	HFIXK57R	1200	blastx.2	URF 3 (NADH dehydrogenase subunit)	emb CAA24033.1	90%	5	325

HFIZQ64	HFIZQ64R	1201	blastx.2	[Homo sapiens] (AK001601) unnamed protein product [Homo sapiens]	dbj BAA91782.1	100%	48	137
HFKKK36	HFKKK36 R	1202	blastx.2	neutral calponin [Homo sapiens]	dbj BAA12090.1	96%	3	86
HFPEC93	HFPEC93R	1203	blastx.2	URF 2 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24027.1	87% 90%	66 1	527 66
HFPIX37	HFPIX37R	1204	blastx.2	(AL137696) hypothetical protein [Homo sapiens]	emb CAB70878.1	51% 41%	4 1	240 258
HFTDK36	HFTDK36R	1205	blastx.2	folate-binding protein precursor [Homo sapiens]	gb AAA35822.1	100% 38%	90 341	290 514
HFVIB28	HFVIB28R	1206	blastx.2	fused-cdd [Escherichia coli]	emb CAA71575.1	70%	26	175
HFXGR60	HFXGR60R	1207	blastx.2	(AF034746) LNXp70 [Mus musculus]	gb AAC40076.1	56%	347	57
HHAUD07	HHAUD07 R	1208	blastx.2	GTP-binding regulatory protein Gs alpha chain isoform - 1	pir JH0813 JH0813	75%	337	459
HHBFO21	HHBFO21R	1209	blastx.2	URF 3 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24033.1	83% 82% 64%	3 248 205	236 328 246
HHEVG50	HHEVG50 R	1210	blastx.2	CAG-isl 7 [Homo sapiens]	gb AAC16021.1	93%	13	474
HHFGQ65	HHFGQ65 RA	1211	blastx.2	(AJ249731) putative G8.1 protein [Homo	emb CAB56506.1	81% 77%	107 25	319 129

HHSFG15	HHSFG15R	1213	blastx.2	sapiens] (AF014888) NADH dehydrogenase subunit 2 [Homo sapiens]	gb AAC25447.1	78%	3	743
HHSGP15	HHSGP15R	1214	blastx.2	cytochrome oxidase subunit III [Talpa europaea]	emb CAB71165.1	74% 62%	2 517	529 717
HHSGQ17	HHSGQ17 R	1215	blastx.2	cytochrome b [Homo sapiens]	gb AAA19775.1	89%	79	435
HKBAD05	HKBAD05 R	1216	blastx.2	(AB015335) HRIHFB2072 [Homo sapiens]	dbj BAA88116.1	84% 100%	61 324	351 356
HKZAE07	HKZAE07R	1218	blastx.2	Na <sup>+</sup> , K <sup>+</sup> -ATPase beta- subunit precursor [Sus scrofa]	gb AAA31002.1	100%	1	138
HKZAI14	HKZAI14R	1220	blastx.2	keratin 18 [Homo sapiens]	gb AAA59461.1	100%	3	368
HKZAI68	HKZAI68R A	1221	blastx.2	antigen [Homo sapiens]	gb AAA02999.1	100%	2	79
HKZAQ39	HKZAQ39 R	1222	blastx.2	ubiquitin-conjugating enzyme UbcH7 [Homo sapiens]	emb CAA63538.1	100%	19	480
HKZAR58	HKZAR58 R	1223	blastx.2	(AC005545) AP-3 complex delta subunit, partial CDS [Homo 1]	gb AAC34214.1	98%	3	266
HKZAS59	HKZAS59R	1224	blastx.2	ATP synthase beta subunit precursor [Homo sapiens]	gb AAA51809.1	100%	1	462
HKZAS64	HKZAS64R	1225	blastx.2	nephropontin [Homo sapiens]	gb AAA17675.1	98%	1	276

HKZAS84	HKZAS84R	1226	blastx.2	sapiens] calpain II regulatory subunit (EC 3.4.22.17) [Bos taurus]	gb AAA30422.1	100%	2	103
HKZAV69	HKZAV69 R	1227	blastx.2	ribosomal protein S17 [Homo sapiens]	gb AAA60284.1	100%	8	412
HKZAV72	HKZAV72 R	1228	blastx.2	fibronectin precursor [Homo sapiens]	emb CAA26536.1	100%	2	163
HKZBB22	HKZBB22R	1230	blastx.2	(AB015610) ribosomal protein S4X [Chlorocebus aethiops]	dbj BAA36501.1	100%	8	520
HKZBS89	HKZBS89R	1231	blastx.2	ferritin heavy subunit [Homo sapiens]	gb AAA35830.1	100%	1	381
HLDQQ80	HLDQQ80 R	1232	blastx.2	ATPase subunit 6 [Papio hamadryas]	emb CAA76999.1	74% 54%	2 153	142 257
HLDXE19	HLDXE19R	1233	blastx.2	neuron-restrictive silencer factor [Homo sapiens]	gb AAC50115.1	80%	17	187
HLLCD55	HLLCD55R	1234	blastx.2	glutamine:fructose-6- phosphate amidotransferase [Homo sapiens]	gb AAA58502.1	96%	56	148
HLJBI37	HLJBI37R	1236	blastx.2	H(+)-transporting ATP synthase [Bos taurus]	emb CAA45865.1	100% 65% 80% 60% 88%	165 329 83 481 450	335 610 187 555 476
HLTHA47	HLTHA47R	1237	blastx.2	100 kDa protein [Rattus norvegicus]	emb CAA45756.1	82% 88%	187 380	393 406

HLTJA50	HLTJA50R	1238	blastx.2	(AK002071) unnamed protein product [Homo sapiens]	dbj BAA92068.1	63%	334	723
HLYDI57	HLYDI57R	1241	blastx.2	URF 1 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24026.1	90%	2	565
HMCFO19	HMCFO19R	1242	blastx.2	hypothetical 18K protein - goldfish mitochondrion	pir JC1348 JC1348	46%	104	361
HMCIZ44	HMCIZ44R	1243	blastx.2	URF 2 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24027.1	86% 74% 40%	1 377 207	342 517 389
HMCJE25	HMCJE25R	1244	blastx.2	cytochrome oxidase subunit I [Hyalobates lar]	emb CAA67630.1	82% 77%	3 298	314 351
HMSPB25	HMSPB25R	1245	blastx.2	alcohol dehydrogenase [Homo sapiens]	gb AAA51596.1	75%	315	172
HMVBB04	HMVBB04R	1246	blastx.2	cytochrome-c oxidase (EC 1.9.3.1) chain I - western lowland 1	pir C59153 C59153	86%	73	201
HNAAE01	HNAAE01R	1247	blastx.2	(AP000616) similar to RING-H2 finger protein RHA1a (AF078683) [Oryza sativa]	dbj BAA85438.1	67% 67% 100% 100% 100% 100% 100% 100%	95 96 90 89 92 91 93 94 91	196 197 155 154 157 156 158 159 153
HNBUI37	HNBUI37	1249	blastx.2	smooth muscle myosin	gb AAB28951.1	95%	77	289

	R				heavy chain isoform SM1 [human, umbilical 1				
HNBVL57	HNBVL57 R	1250	blastx.2		growth-arrest-specific protein 2 [Homo sapiens]	gb AAC52058.1	74% 55%	242 70	514 384
HNHBC18	HNHBC18 R	1251	blastx.2		OS9 [Homo sapiens]	gb AAC39523.1	100% 41% 46% 35%	1 245 315 244	243 403 404 435
HNJFE85	HNJFE85R	1252	blastx.2		(AL031670) dJ681N20.2 (similar to FTLL1(ferritin, light 1	emb CAB43181.1	97%	224	451
HNKCO29	HNKCO29 R	1253	blastx.2		(AF044957) NADH:ubiquinone oxidoreductase B15 subunit [Homo sapiens]	gb AAD05421.1	95%	52	390
HNOAA22	HNOAA22 R	1254	blastx.2		acidic ribosomal phosphoprotein (P1) [Homo sapiens]	gb AAA36471.1	91%	114	422
HNOAB88	HNOAB88 R	1257	blastx.2		actin 2 protein [Strongylocentrotus purpuratus]	gb AAA30032.1	83% 81%	3 509	491 541
HNOAC15	HNOAC15 R	1259	blastx.2		unnamed protein product [unidentified]	emb CAB42187.1	93%	1	87
HNOAE50	HNOAE50 R	1260	blastx.2		ribosomal protein L21 [Homo sapiens]	emb CAA61582.1	98%	98	577
HNOAE65	HNOAE65 R	1261	blastx.2		ribosomal protein L26 [Homo sapiens]	emb CAA49189.1	100%	101	535

HNOAF22	HNOAF22 R	1262	blastx.2	ribosomal protein L21 [Homo sapiens]	emb CAA61582.1	100%	76	555
HNOAG34	HNOAG34 R	1264	blastx.2	collagen alpha 1(I) chain - bovine (fragments)	pir A91193 CGBO1S	64%	54	239
						72%	1	108
						75%	221	319
						37%	3	239
						67%	221	313
						39%	21	239
						44%	54	236
						36%	15	236
						37%	15	236
						44%	72	239
						39%	21	239
						42%	12	236
						38%	3	236
						38%	15	239
						45%	84	236
						48%	99	239
						35%	15	236
						41%	54	239
						35%	6	239
						36%	3	239
						62%	233	319
						42%	69	239
						47%	93	236
						36%	15	239
						38%	3	200
						45%	93	236
						35%	15	239
						38%	54	239



							44%	93	239
							41%	6	236
							37%	3	239
							41%	69	236
							35%	6	236
							34%	15	239
							44%	84	239
							48%	218	322
							35%	6	239
							36%	21	236
							33%	15	239
							36%	3	239
							32%	3	239
							48%	218	319
							36%	54	239
							52%	227	322
							35%	15	236
							50%	233	328
							54%	233	328
							51%	227	322
							46%	111	239
							47%	218	319
							33%	21	236
							53%	233	322
							57%	233	316
							42%	114	239
							57%	233	316
							53%	233	316
							50%	227	328
							51%	227	328

							38%	69	239
							33%	3	236
							53%	233	316
							59%	1	96
							36%	93	239
							45%	233	358
							51%	227	319
							50%	227	322
							45%	221	319
							47%	218	319
							51%	233	319
							45%	212	316
							46%	227	316
							46%	221	316
							50%	233	322
							44%	221	322
							44%	230	328
							45%	227	328
							44%	1	108
							38%	93	239
							45%	227	322
							50%	227	316
							50%	233	316
							50%	227	316
							50%	230	319
							43%	227	319
							46%	233	322
							46%	221	316
							48%	233	319
							46%	227	316

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							43%	233	322
							42%	221	316
							41%	1	108
							39%	1	114
							38%	1	108
							40%	1	108
							40%	212	316
							41%	221	322
							36%	1	108
							38%	1	108
							43%	233	328
							38%	227	316
							43%	227	316
							43%	233	322
							40%	221	316
							37%	1	105
							38%	1	108
							43%	227	316
							38%	1	93
							47%	227	316
							41%	1	93
							40%	221	316
							38%	227	316
							38%	227	316
							41%	1	93
							38%	1	93
							36%	1	108
							38%	218	316
							63%	260	316
							37%	1	105

							108
							108
							108
						227	316
						227	316
						221	316
						1	108
						321	362
						1	105
						1	108
						1	108
						1	93
						1	123
						212	322
						1	66
						1	105
						1	93
						1	93
						1	105
						1	105
						1	108
						221	328
						1	105
						212	316
						233	316
						1	93
						1	105
						1	93
						1	108
						1	108

							41%	1	93
							38%	1	108
							33%	1	108
							31%	1	114
							37%	1	105
							33%	1	108
							40%	233	322
							35%	1	93
							31%	1	105
							34%	1	105
							37%	230	316
							40%	227	316
							38%	1	93
							33%	1	108
							37%	1	96
							39%	218	316
							31%	1	123
							38%	233	316
							36%	1	105
							38%	1	108
							39%	233	316
							40%	233	322
							38%	1	93
							36%	1	108
							37%	1	105
							36%	233	322
							32%	1	93
							33%	1	108
							30%	1	108
							35%	1	93

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								37%	238	86
								30%	238	80
								45%	318	220
								42%	360	226
								48%	318	226
								31%	238	71
								51%	318	214
								26%	253	68
								50%	199	104
								38%	238	98
								46%	315	226
								46%	315	226
								44%	357	226
								38%	238	104
								37%	238	92
								45%	318	226
								40%	357	226
								43%	318	223
								39%	238	71
								44%	318	214
								39%	354	226
								46%	318	223
								44%	357	223
								41%	238	104
								35%	238	71
								38%	238	71
								34%	238	77
								45%	318	217
								44%	315	214
								43%	321	214



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HNOAH67	HNOAH67 R	1266	blastx.2	elongation factor 1 alpha [Oryctolagus cuniculus]	gb AAA18502.1	38% 33%	56 65	3 3
HNOAJ67	HNOAJ67R	1267	blastx.2	(AB000911) ribosomal protein [Sus scrofa]	dbj BAA19211.1	100%	69	524
HNOAL51	HNOAL51 R	1270	blastx.2	(AD001528) spermidine aminopropyltransferase [Homo sapiens]	gb AAB61308.1	72% 75%	70 3	255 74
HNOAO71	HNOAO71 R	1273	blastx.2	MAP kinase kinase [Homo sapiens]	gb AAA36318.1	98%	62	283
HNOAP21	HNOAP21 R	1274	blastx.2	Q1Z 7F5 [Homo sapiens]	gb AAA36021.1	91%	20	667
HNOAQ24	HNOAQ24 R	1275	blastx.2	epoxide hydrolase [Homo sapiens]	gb AAA52390.1	89%	2	571
HNOAQ47	HNOAQ47 R	1276	blastx.2	TAXREB107 [Homo sapiens]	dbj BAA04491.1	99%	1	618
HNOAR85	HNOAR85 R	1278	blastx.2	(AF161378) HSPC260 [Homo sapiens]	gb AAF28938.1 AF1 61378_1	88% 92%	287 99	562 290
HNOAS07	HNOAS07 R	1279	blastx.2	scar protein [Homo sapiens]	gb AAA36597.1	97% 97%	96 1	521 108
HNOAS36	HNOAS36 R	1280	blastx.2	proteoglycan core protein [Homo sapiens]	gb AAB00774.1	100%	3	254
HNOAS92	HNOAS92 R	1281	blastx.2	glutathione transferase M1 [Homo sapiens]	gb AAA59203.1	100%	2	385
HNOAT76	HNOAT76 R	1283	blastx.2	(AB016193) transcription factor	dbj BAA36616.1	100%	2	187

HNOAV91	HNOAV91 R	1284	blastx.2	[Homo sapiens] ribosomal protein L28 [Homo sapiens]	gb AAA85657.1	99%	29	439
HNOBE83	HNOBE83 R	1286	blastx.2	translation initiation factor eIF3 p40 subunit [Homo sapiens]	gb AAD03465.1	100% 60% 79%	2 525 694	598 692 765
HNOBV55	HNOBV55 RA	1287	blastx.2	ribosomal protein L12 [Homo sapiens]	gb AAA36157.1	100% 74%	171 65	506 217
HNOCE63	HNOCE63 R	1288	blastx.2	(AF083217) WD repeat protein WDR3 [Homo sapiens]	gb AAD45865.1 AF0 83217_1	68% 30% 45%	2 442 393	388 819 557
HNOCL43	HNOCL43 R	1289	blastx.2	alpha-1 type III collagen [Homo sapiens]	gb AAA52002.1	98%	2	193
HNOCN02	HNOCN02 R	1290	blastx.2	TARBP-b gene product [Homo sapiens]	gb AAA91344.1	91%	7	666
HNOCN10	HNOCN10 R	1291	blastx.2	(AF043254) heat shock protein 75 [Homo sapiens]	gb AAC02679.1	90% 40% 100%	4 488 435	423 622 464
HNOCR44	HNOCR44 R	1292	blastx.2	ribosomal protein L7a large subunit [Homo sapiens]	gb AAA60282.1	80%	3	440
HNOCU03	HNOCU03 R	1293	blastx.2	translational elongation factor-1 alpha [Danio rerio]	emb CAA54771.1	74%	40	360
HNODG11	HNODG11 R	1295	blastx.2	tumor protein (AA 1 - 172) [Homo sapiens]	emb CAA34200.1	71% 70% 66% 85%	93 262 482 552	362 498 580 611

HNOJA93	HNOJA93R	1298	blastx.2	general transcription factor [Homo sapiens] (AF110731)	emb CAA37375.1	100%	1	453
HNOJB10	HNOJB10R	1299	blastx.2	antioxidant enzyme B166 [Homo sapiens]	gb AAF03750.1 AF110731_1	98% 53% 54%	11 384 418	376 521 480
HNOJB57	HNOJB57R	1300	blastx.2	midkine [Homo sapiens]	dbj BAA01457.1	74%	92	520
HNOJH48	HNOJH48R	1304	blastx.2	(AF077054) unr protein [Homo sapiens]	gb AAD27787.1 AF077054_1	100%	2	283
HNOJH52	HNOJH52R	1305	blastx.2	S-adenosylhomocysteine hydrolase [Homo sapiens]	gb AAA51681.1	100%	6	179
HNOJI82	HNOJI82R	1306	blastx.2	ubiquitin [synthetic construct]	gb AAA57047.1	94%	22	489
HNOJI85	HNOJI85R	1307	blastx.2	(AF035718) mesoderm-specific basic-helix-loop-helix protein; Pod-1 [Homo sapiens]	gb AAC62514.1	86%	13	513
HNOJJ20	HNOJJ20R	1308	blastx.2	ribosomal protein L23a [Homo sapiens]	gb AAA03341.1	98%	1	261
HNOJJ26	HNOJJ26R	1309	blastx.2	plasma gelsolin [Homo sapiens]	emb CAA28000.1	73%	2	568
HNOJK66	HNOJK66R	1310	blastx.2	von Willebrand factor prepropeptide [Homo sapiens]	gb AAB59512.1	90% 100% 26% 25% 25% 26%	1 408 16 13 307 91	459 491 396 324 402 405

HNOJM64	HNOJM64 R	1312	blastx.2	alpha-tubulin III [Cricetulus griseus]	gb AAA37026.1	69%	218	256
						27%	319	399
						38%	343	402
						32%	16	171
						97%	3	428
HNOJO55	HNOJO55R	1313	blastx.2	Protein sequence and annotation available soon via Swiss-Prot; 1 [Homo sapiens]	emb CAA62188.1	93%	423	277
						100%	134	9
						66%	134	9
						53%	423	277
						40%	423	268
						48%	131	9
						36%	143	3
						37%	423	289
						39%	402	286
						44%	116	9
						30%	423	280
						33%	128	12
						28%	128	12
						23%	128	3
						30%	128	12
						42%	408	310
						32%	423	289
						35%	426	265
						27%	137	3
						37%	396	280
						30%	408	280
						22%	146	12
						35%	119	9
						41%	357	280

HNOJP42	HNOJP42R	1314	blastx.2	envelope protein [Homo sapiens]	gb AAA88027.1	28%	414	280
						34%	116	12
						37%	381	280
						25%	423	280
						23%	426	310
						27%	116	9
						35%	402	286
						35%	426	298
						28%	423	277
						28%	116	12
						39%	158	93
						31%	420	310
						35%	140	99
						25%	128	12
						43%	117	70
HNOJP42	HNOJP42R	1314	blastx.2	envelope protein [Homo sapiens]	gb AAA88027.1	71%	6	302
HNOJQ22	HNOJQ22R	1315	blastx.2	(AJ224875) glucosyltransferase [Homo sapiens]	emb CAA12176.1	100%	217	510
						100%	1	219
HNOKA20	HNOKA20 R	1316	blastx.2	signal recognition particle subunit 14 [Homo sapiens]	emb CAA51838.1	97%	38	259
HNOKG34	HNOKG34 R	1318	blastx.2	hnRNPcore protein A1 [Homo sapiens]	emb CAA56072.1	100%	43	510
						31%	52	324
HNOKI89	HNOKI89R	1323	blastx.2	(AF009368) Luman [Homo sapiens]	gb AAB69652.1	100%	2	370
HNOKT24	HNOKT24 R	1326	blastx.2	ribosomal protein L6 [Homo sapiens]	emb CAA49188.1	89%	74	457
						68%	3	191
HNOKU52	HNOKU52	1327	blastx.2	ribosomal protein L29	gb AAC50499.1	98%	33	509

HNOKV82	R	1328	blastx.2	[Homo sapiens] (AF081484) alpha-tubulin isoform 1 [Homo sapiens]	gb AAC31959.1	100%	3	488
HNORA56	R	1330	blastx.2	MHC class I A [Pan troglodytes]	gb AAA88855.1	93% 91% 96%	2 348 289	289 494 363
HNORB68	R	1331	blastx.2	high mobility group protein 17 [Homo sapiens]	gb AAA52678.1	95%	4	186
HNORC14	R	1332	blastx.2	hevin [Homo sapiens]	emb CAA57650.1	90%	2	496
HNORD11	R	1333	blastx.2	ribosomal protein L5 [Rattus norvegicus]	gb AAA42074.1	93% 91%	179 7	394 183
HNORE65	R	1334	blastx.2	ORF [Pan troglodytes]	dbj BAA01980.1	83%	77	355
HNORF03	R	1335	blastx.2	(AL031228) dJ1033B10.2 (WD40 protein BING4 (similar to S. 1 sapiens])	emb CAA20229.1	89% 83% 90%	70 529 357	357 582 386
HNORF04	R	1336	blastx.2	(AF196481) RING finger protein; FXY2 [Homo sapiens]	gb AAF07341.1 AF1 96481_1	91%	4	144
HNORF05	R	1337	blastx.2	'human homologue of rat ribosomal protein L9' [Homo sapiens]	dbj BAA03401.1	98% 98%	2 321	319 485
HNORF13	R	1338	blastx.2	TIMP [Homo sapiens]	emb CAA00898.1	74%	31	615
HNORH03	R	1339	blastx.2	(AF110731) antioxidant enzyme	gb AAF03750.1 AF1 10731_1	95%	3	641



HNORH05	HNORH05 R	1340	blastx.2	B166 [Homo sapiens] ubiquitin conjugating- protein [Oryctolagus cuniculus]	gb AAA31492.1	100%	43	498
HNORJ08	HNORJ08R	1342	blastx.2	ATPase [Mus musculus]	gb AAA88243.1	90% 90% 38%	3 308 514	350 496 606
HOCMA02	HOCMA02 RA	1344	blastx.2	(AF016365) hexokinase I [Homo sapiens]	gb AAC15862.1	100% 65% 86% 50%	3 3 490 490	497 497 558 555
HOCMC08	HOCMC08 R	1347	blastx.2	elongation factor 1 alpha [Oryctolagus cuniculus]	gb AAA18502.1	89%	19	423
HOCMF27	HOCMF27 R	1349	blastx.2	sorbitol dehydrogenase [Homo sapiens]	gb AAA66064.1	100%	3	395
HOCMG37	HOCMG37 R	1352	blastx.2	chaperonin (HSP60) [Homo sapiens]	gb AAA36022.1	98% 36%	4 326	351 424
HOCMI62	HOCMI62R	1353	blastx.2	S19 ribosomal protein [Homo sapiens]	gb AAA89070.1	67%	64	384
HOCMJ47	HOCMJ47R	1354	blastx.2	ribosomal protein L18a [Homo sapiens]	gb AAC18781.1	98% 100%	4 413	378 439
HOCMK20	HOCMK20 R	1355	blastx.2	stathmin [Xenopus laevis]	emb CAA50562.1	77% 64%	80 363	379 500
HOCML06	HOCML06 R	1356	blastx.2	glyceraldehyde 3- phosphate dehydrogenase (EC 1.2.1.12) [Homo sapiens]	gb AAA52496.1	97%	123	707

HOCML66	HOCML66 R	1357	blastx.2	(AK000779) unnamed protein product [Homo sapiens]	dbj BAA91374.1	85% 76%	2 217	211 330
HOCMM5 2	HOCMM52 R	1358	blastx.2	glutathione transferase T1 [Homo sapiens]	emb CAA55935.1	98% 100%	133 24	594 137
HOCMS75	HOCMS75 R	1360	blastx.2	plakoglobin [Homo sapiens]	emb CAA92522.1	88%	6	500
HOCMS87	HOCMS87 R	1361	blastx.2	insulin-like growth factor binding protein 5 [Homo sapiens]	gb AAA53505.1	70%	151	615
HOCMY53	HOCMY53 R	1363	blastx.2	(AF028832) Hsp89- alpha-delta-N [Homo sapiens]	gb AAC25497.1	97% 100% 43%	97 309 45	312 416 113
HOCMY61	HOCMY61 R	1364	blastx.2	ribosomal protein S15a [Rattus norvegicus]	emb CAA54918.1	99%	80	466
HOCMY79	HOCMY79 R	1365	blastx.2	fau [Homo sapiens]	emb CAA46716.1	100% 100%	317 115	511 315
HOCOC38	HOCOC38 R	1366	blastx.2	HYPOTHETICAL PROTEIN (FRAGMENT).	sp Q16465 YZA1_H UMAN	100%	388	23
HOCOC94	HOCOC94 R	1368	blastx.2	protein phosphatase 2A (AA 1 - 309) [Oryctolagus cuniculus]	emb CAA68732.1	98% 84% 66%	3 490 566	485 567 628
HOCOF35	HOCOF35R	1369	blastx.2	(AF059486) putative actin-binding protein DOC6 [Mus musculus]	gb AAC31808.1	51% 81% 47% 29% 28% 31%	224 100 495 31 511 139	706 279 647 273 711 282

HOCOF50	HOCOF50R	1370	blastx.2	'FKBP52; 52 kD FK506 binding protein' [Homo sapiens]	gb AAA36111.1	72% 46% 55% 43%	2 38 396 472	460 532 632 561
HOCOO62	HOCOO62 R	1371	blastx.2	Ro ribonucleoprotein autoantigen (Ro/SS-A) precursor [Homo sapiens]	gb AAA36582.1	77%	42	596
HOCOP52	HOCOP52R	1372	blastx.2	spliceosomal protein [Homo sapiens]	gb AAA60300.1	67% 34% 39% 30% 42%	2 68 388 441 522	631 301 621 626 620
HOCOQ13	HOCOQ13 R	1373	blastx.2	probable transmembrane protein TMC - human	pir S70029 S70029	94% 75%	94 482	474 541
HOCOT70	HOCOT70 R	1375	blastx.2	ribosomal protein S17 [Homo sapiens]	gb AAA60284.1	97%	8	412
HOCPP69	HOCPP69R	1377	blastx.2	(AJ001701) deoxyhypusine synthase [Homo sapiens]	emb CAA04940.1	96% 72% 50%	1 347 396	351 412 455
HOCPH40	HOCPH40R	1380	blastx.2	3-oxoacyl-CoA thiolase propeptide (424 AA) [Homo sapiens]	emb CAA31412.1	100%	2	217
HOCPH44	HOCPH44R	1381	blastx.2	antiserotory factor-1 [Homo sapiens]	gb AAB54057.1	96% 48%	3 286	275 408
HOCPI53	HOCPI53R	1383	blastx.2	collagen (VI) alpha-1 chain [Homo sapiens]	emb CAA67576.1	76% 56% 100%	41 225 4	322 365 39

HOCPM39	HOCPM39 R	1385	blastx.2	pinin [Bos taurus]	gb AAB48302.1	86%	23	136
HOCPP65	HOCPP65R	1386	blastx.2	histone H2A.F [Gallus gallus]	emb CAA32094.1	85% 53%	63 350	314 445
HOCPP80	HOCPP80R	1387	blastx.2	isoleucyl-tRNA synthetase [Homo sapiens]	gb AAA80153.1	88%	3	563
HOCPPQ59	HOCPPQ59R	1389	blastx.2	(AF006012) dishevelled 2 [Homo sapiens]	gb AAB65243.1	84% 100%	38 5	394 52
HOCPPQ66	HOCPPQ66R	1390	blastx.2	clathrin-associated protein 17 [Rattus norvegicus]	gb AAA40742.1	100%	2	427
HOCPPQ75	HOCPPQ75R	1391	blastx.2	TIMP [Homo sapiens]	emb CAA00898.1	86%	26	646
HOCPR01	HOCPR01R	1392	blastx.2	alpha subunit (aa 1-394) [Bos taurus]	emb CAA27137.1	100% 91%	39 2	536 37
HOCPR29	HOCPR29R	1393	blastx.2	translation initiation factor [Homo sapiens]	emb CAA56074.1	96% 48% 40%	1 603 575	579 776 679
HOCPR53	HOCPR53R	1395	blastx.2	P311 HUM [Homo sapiens]	gb AAA74903.1	77%	86	268
HOCPR77	HOCPR77R	1397	blastx.2	similar to emb-5 protein of C.elegans. [Homo sapiens]	dbj BAA11479.1	92%	1	249
HOCPS35	HOCPS35R	1399	blastx.2	(AB017018) JKTBP2 [Homo sapiens]	dbj BAA75239.1	100%	3	203
HOCPU03	HOCPU03R	1400	blastx.2	dihydropyridine-sensitive L-type calcium channel alpha-2 subunit	gb AAA41088.1	65% 54%	7 441	456 512

HOCPU30	HOCPU30R	1401	blastx.2	[Rattus norvegicus] KDEL receptor [Homo sapiens]	emb CAA39371.1	66% 69% 61%	342 139 242	518 267 334
HOCPU68	HOCPU68R	1402	blastx.2	preprocathepsin B [Homo sapiens]	gb AAA52129.1	98%	3	269
HOCPU29	HOCPU29R	1403	blastx.2	thrombin inhibitor [Homo sapiens]	emb CAA80373.1	58%	243	593
HOCPU67	HOCPU67R	1404	blastx.2	serine/threonine-protein kinase PRP4m [Mus musculus]	gb AAB03269.1	88% 87%	58 345	327 518
HOCPU72	HOCPU72R	1405	blastx.2	(AF132952) CGI-18 protein [Homo sapiens]	gb AAD27727.1 AF132952.1	91% 84%	33 184	203 318
HOCPU56	HOCPU56R	1406	blastx.2	ARL3 [Homo sapiens]	gb AAA21654.1	100%	2	502
HOCPU81	HOCPU81R	1408	blastx.2	cysteine protease Mch2 isoform alpha [Homo sapiens]	gb AAC50168.1	91%	2	739
HOCPU01	HOCPU01R	1409	blastx.2	(AF052514) thymus specific serine peptidase [Homo sapiens]	gb AAC33563.1	73% 50% 87% 28%	129 113 566 483	440 571 589 587
HOCPU76	HOCPU76R	1411	blastx.2	(AF002705) beta prime COP [Rattus norvegicus]	gb AAB88018.1	99% 77%	2 423	421 524
HOCQA26	HOCQA26R	1413	blastx.2	interferon-inducible protein [Homo sapiens]	emb CAA59337.1	100% 71% 47%	205 410 360	378 571 473
HOCQA37	HOCQA37R	1414	blastx.2	lactoyl glutathione	dbj BAA02572.1	100%	136	276

HOCQA86	R				lyase [Homo sapiens]			82%	63	131
HOCQA86	HOCQA86	1415	blastx.2		proteoglycan core protein [Homo sapiens]		gb AAB00774.1	91%	84	392
HOCQB18	R	1416	blastx.2		general transcription factor [Homo sapiens]		emb CAA37375.1	99%	3	473
HOCQB48	R	1417	blastx.2		Na+-independent neutral and basic amino acid transporter [Homo sapiens]		dbj BAA11541.1	97%	4	555
HOCQC71	R	1419	blastx.2		calcium binding protein [Homo sapiens]		dbj BAA23325.1	98%	126	419
HOCQD10	R	1420	blastx.2		ribosomal protein L12 [Homo sapiens]		gb AAA36157.1	88%	152	637
HOCQD19	R	1421	blastx.2		retinoid X receptor alpha [Rattus norvegicus]		gb AAA42093.1	80% 56%	3 424	392 567
HOCQD42	R	1423	blastx.2		(AF095257) heterogeneous nuclear ribonucleoprotein C1/C2; hnRNP C1/C2 [Mus musculus]		gb AAD03717.1	86% 65% 59% 53%	1 299 474 474	294 475 614 599
HOCQD45	R	1424	blastx.2		glyceraldehyde-3-phosphate dehydrogenase (EC 1.2.1.12), eutherian tissue - desert jerboa		pir JC5370 JC5370	91% 54% 100%	92 495 457	463 785 492
HOCQE35	R	1425	blastx.2		ribosomal protein L7a large subunit [Homo sapiens]		gb AAA60282.1	74%	6	437

HOCQG94	HOCQG94 R	1426	blastx.2	actin [Brugia malayi]	emb CAB06627.1	62%	9	629
HOCQH81	HOCQH81 R	1427	blastx.2	(AF038952) cofactor A protein [Homo sapiens]	gb AAC39866.1	58%	254	652
HOCQI31	HOCQI31R	1428	blastx.2	prostacyclin- stimulating factor, PGI2-stimulating factor, PSF 1 sapiens]	gb AAB32370.1	91%	144	242
HOCQM24	HOCQM24 R	1430	blastx.2	hnRNPCore protein A1 [Homo sapiens]	emb CAA56072.1	100%	1	324
HODAF78	HODAF78 R	1431	blastx.2	(AC004638) amyloid precursor protein- binding protein 1 (APP-B1) [Homo sapiens]	gb AAC23784.1	55%	8	274
HODCZ52	HODCZ52 R	1434	blastx.2	tissue-specific secretory protein [synthetic construct]	emb CAA01433.1	66%	26	133
HODDI57	HODDI57R	1435	blastx.2	(AF113514) histone acetyltransferase MORF [Homo sapiens]	gb AAF000095.1	100%	216	233
						96%	6	167
						68%	164	304
						36%	12	158
						33%	12	170
						35%	45	164
						30%	39	164
						25%	30	176
						30%	24	164
						27%	36	146
						26%	13	168
						37%	81	161
						46%	53	91

HODER57	HODER57 R	1440	blastx.2	Method: conceptual translation supplied by author [Homo sapiens]	gb AAA91179.1	34%	6	101
HODFC44	HODFC44R P00	1449	blastx.2	(AF216754) over- expressed breast tumor protein [Homo sapiens]	gb AAF25683.1 AF2 16754_1	98%	1	207
HODFJ14	HODFJ14R	1453	blastx.2	Ran_GTP binding protein 5 [Homo sapiens]	emb CAA70103.1	100%	2	181
HODFO16	HODFO16 R	1459	blastx.2	selenium donor protein [Homo sapiens]	gb AAA87567.1	100%	305	409
HODFO64	HODFO64 R	1460	blastx.2	zinc finger protein ZNF136 [Homo sapiens]	gb AAC50261.1	78%	16	153
						70%	1	153
						70%	1	153
						64%	1	153
						66%	1	153
						71%	16	153
						58%	1	153
						58%	1	153
						60%	1	156
						58%	1	153
						58%	1	153
						58%	7	153
						54%	10	153
						75%	150	233
						67%	156	239
						77%	174	239
						90%	174	233
						62%	153	239



HODFP51	HODFP51R	1461	blastx.2				45%	159	329
							63%	153	242
							80%	174	233
							60%	153	236
							54%	49	153
							51%	242	328
							70%	269	328
							55%	239	319
							60%	174	233
							43%	242	337
							81%	272	319
							54%	248	319
							32%	159	314
							34%	174	314
							48%	242	328
							52%	251	319
							41%	239	325
							41%	248	319
							37%	239	325
HODFP51	HODFP51R	1461	blastx.2	pre-mRNA splicing factor [Homo sapiens]		gb AAA36648.1	77%	74	439
HODFQ19	HODFQ19 R	1462	blastx.2	DNA topoisomerase III [Homo sapiens]		gb AAB03694.1	44%	104	436
HODFQ37	HODFQ37 R	1463	blastx.2	pancreatic peptidylglycine alpha-amidating monooxygenase, 1 1		gb AAB32776.1	92%	47	499
							93%	2	97
							25%	338	493
HODGB69	HODGB69 R	1475	blastx.2	protein 4 [Homo sapiens]		gb AAB58952.1	89%	3	470
HODGH30	HODGH30	1478	blastx.2	IDN4-GGTR14		sp Q9Y6Y5 Q9Y6Y5	90%	31	129

HODGH43	R	1479	blastx.2	PROTEIN. (AB005878) BYJ15 [Nicotiana tabacum]	dbj BAA21615.1	100%	48	116
HODGH65	R	1480	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	28%	217	363
HODGN53	R	1482	blastx.2	(AF186461) ring finger protein Fxy [Rattus norvegicus]	gb AAD56247.1 AF1 86461_1	96%	41	127
HODGQ52	R	1487	blastx.2	unnamed protein product [unidentified]	emb CAB42187.1	39%	95	475
HODGW91	R	1489	blastx.2	phosphofructokinase [Homo sapiens]	gb AAA79220.1	82%	1	84
HODGZ63	R	1493	blastx.2	putative [Caenorhabditis elegans]	gb AAA28195.1	25%	118	189
HODHD23	R	1495	blastx.2	fused-cddB [Escherichia coli]	emb CAA71575.1	100%	101	3
HODHE54	R	1498	blastx.2	lysyl oxidase-like protein [Homo sapiens]	gb AAA50162.1	93%	394	347
HODHE88	R	1499	blastx.2	(AK001737) unnamed protein product [Homo sapiens]	dbj BAA91871.1	49%	190	462
HODHG56	R	1500	blastx.2	(AF151888) CGI-130 protein [Homo sapiens]	gb AAD34125.1 AF1 51888_1	57%	470	532
HODHK86	R	1503	blastx.2	(AB005299) BAI 3 [Homo sapiens]	dbj BAA25363.1	92%	24	104
HODJL36	R	1505	blastx.2	(AL031177)	emb CAA20118.1	100%	24	323
						96%	323	418
						32%	94	348
						83%	29	196
						100%	121	231
						93%	2	289
						88%	413	568
						48%	207	590
						40%	254	436

A				dJ89N15.2.2 (26S Proteasome subunit p28 (Ankyrin 1		32%	26	118
HODJZ09	HODJZ09R	1506	blastx.2	prepronociceptin [Homo sapiens]	emb CAA66039.1	98%	64	558
HODKB82	HODKB82	1508	blastx.2	serine/threonine kinase [Rattus norvegicus]	emb CAB06294.1	96%	3	338
HODKD64	HODKD64	1514	blastx.2	(AL096881) hypothetical protein [Homo sapiens]	emb CAB51405.1	28%	348	473
						66%	503	333
HODKK26	HODKK26	1519	blastx.2	calmodulin [Homo sapiens]	dbj BAA08302.1	99%	59	424
						45%	41	286
						34%	38	391
						100%	463	507
						75%	417	464
HODKK40	HODKK40	1520	blastx.2	ribosomal protein S6 [Homo sapiens]	gb AAA60289.1	99%	1	624
HODKK73	HODKK73	1521	blastx.2	acidic ribosomal phosphoprotein (P0) [Homo sapiens]	gb AAA36470.1	96%	3	344
						71%	331	651
						28%	416	682
HODKN65	HODKN65	1526	blastx.2	homologue to elongation factor 1- gamma from A.salina [Homo sapiens]	emb CAA45089.1	76%	5	538
HOECR39	HOECR39R	1527	blastx.2	(AF216306) DCRC-1 [Mus musculus]	gb AAF32294.1 AF2 16306 1	58%	116	424
HOFAB77	HOFAB77R	1528	blastx.2	(AC007193) PPP5_HUMAN [Homo sapiens]	gb AAD22669.1 AC0 07193_3	80%	16	489
						47%	450	512

HOFMF79	HOFMF79 RA	1530	blastx.2	cytochrome b [Canis familiaris]	gb AAD04775.1	80%	4	339
HOFMJ88	HOFMJ88R	1531	blastx.2	receptor protein-tyrosine kinase [Homo sapiens]	gb AAA61139.1	38%	305	430
HOFMM8 4	HOFMM84 R	1533	blastx.2	hydroxymethylglutaryl-CoA reductase (NADPH) (EC 1.1.1.34) - mouse (fragments)	pir A43533 A43533	76%	17	370
HOFMN93	HOFMN93 R	1534	blastx.2	(AF133669) ARL-6 interacting protein-1 [Mus musculus]	gb AAD33046.1 AF133669_1	72% 85%	112 254	252 274
HOFMP59	HOFMP59 R	1535	blastx.2	mitochondrial acetoacetyl-CoA thiolase [Homo sapiens]	dbj BAA01387.1	61% 84%	36 214	299 327
HOFMT68	HOFMT68 R	1536	blastx.2	RNAse L inhibitor [Mus musculus]	gb AAC24730.1	77% 83%	1 369	360 422
HOFMT69	HOFMT69 R	1537	blastx.2	HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN M (HNRNP M).	sp P52272 ROM_HUMAN	52% 40%	137 264	547 581
HOFMU92	HOFMU92 R	1538	blastx.2	(AP000694) chromatin assembly factor 1, subunit B (p60) [Homo sapiens]	dbj BAA89426.1	80% 75% 39%	127 27 98	264 122 316
HOFNF63	HOFNF63R	1540	blastx.2	phosphomannomutase [Homo sapiens]	gb AAC51368.1	63%	124	432
HOFNF76	HOFNF76R	1541	blastx.2	(AB002806) OS-9	dbj BAA24363.1	70%	26	478
						94%	17	370

HOFNG51	HOFNG51 R	1542	blastx.2	isoform 2 is missing nt 1642-1806; OS-9 1 (AB006679) ATP binding protein [Homo sapiens]	dbj BAA21881.1	79%	157	414
HOFNK44	HOFNK44 R	1543	blastx.2	osteonectin precursor [Bos taurus]	gb AAA30678.1	96%	19	186
HOFNY53	HOFNY53 R	1544	blastx.2	(AL034417) bK215D11.1 (RNA- binding protein regulatory subunit) [Homo sapiens]	emb CAB52550.1	91%	17	232
HOFB65	HOFB65R	1545	blastx.2	pyruvate dehydrogenase E1- alpha precursor [Homo sapiens]	gb AAA60055.1	74%	16	600
HOFB79	HOFB79R P00A	1546	blastx.2	KERATIN TYPE II CYTOSKELETAL 8 (FRAGMENT).	sp Q29386 Q29386	84%	80	397
HOFB22	HOFB22R	1547	blastx.2	activin receptor type I [Bos taurus]	gb AAB02696.1	98%	22	345
HOFB47	HOFB47R	1548	blastx.2	(AF129075) T- COMPLEX PROTEIN 1, THETA SUBUNIT (TCP-1-THETA) [Homo sapiens]	gb AAD17375.1	98% 62% 100%	18 245 244	242 460 270
HOFB56	HOFB56R	1549	blastx.2	protein disulfide isomerase [Mus musculus]	gb AAA39906.1	85% 57% 64% 36%	115 109 35 204	219 219 115 350

HOGCF48	HOGCF48R	1553	blastx.2	hepatitis C-associated microtubular aggregate protein p44 [Homo sapiens]	dbj BAA06043.1	40%	263	352
HOGCG83	HOGCG83 R	1554	blastx.2	keratin [Homo sapiens]	emb CAA31695.1	79% 81% 59%	50 309 21	310 482 113
HOGCI28	HOGCI28R	1556	blastx.2	complement component C3 [Homo sapiens]	gb AAA85332.1	93% 83%	3 173	179 337
HOGCJ10	HOGCJ10R	1557	blastx.2	(AF032667) rexo70 [Rattus norvegicus]	gb AAC01579.1	94%	103	471
HOGCJ55	HOGCJ55R	1559	blastx.2	Grb14 [Homo sapiens]	gb AAC15861.1	95%	13	459
HOGCT44	HOGCT44 R	1562	blastx.2	casein kinase I-alpha [Homo sapiens]	gb AAC41760.1	100%	31	183
HOGCV85	HOGCV85 R	1563	blastx.2	heparin binding protein [Homo sapiens]	gb AAA58636.1	76% 73%	3 398	521 535
HOGCV93	HOGCV93 R	1564	blastx.2	elongation factor 1 alpha [Oryctolagus cuniculus]	gb AAA18502.1	79%	43	504
HOGCY12	HOGCY12 R	1565	blastx.2	elongation factor 1 alpha [Oryctolagus cuniculus]	gb AAA18502.1	97% 41%	8 302	340 547
HOGCY58	HOGCY58 R	1566	blastx.2	lipocortin II [Homo sapiens]	dbj BAA00013.1	94% 70% 30%	3 332 150	329 517 326
HOGCY74	HOGCY74 R	1567	blastx.2	extracellular matrix protein BM-40 (AA 1 -	emb CAA68724.1	100%	3	260

HOGDD29	HOGDD29 R	1568	blastx.2	303) [Homo sapiens] drebrin E2 [Homo sapiens]	gb AAA16256.1	88%	3	152
HOGDG03	HOGDG03 R	1570	blastx.2	l-caldesmon II [Homo sapiens]	dbj BAA14419.1	95% 87%	191 393	388 491
HOGDI44	HOGDI44R	1572	blastx.2	neutrophil gelatinase associated lipocalin [Homo sapiens]	emb CAA58127.1	100%	55	192
HOGDO25	HOGDO25 R	1574	blastx.2	XIAP associated factor-1 (ZAP-1) [Homo sapiens]	emb CAA68030.1	100%	2	163
HOGDO58	HOGDO58 R	1575	blastx.2	acidic ribosomal phosphoprotein (P0) [Homo sapiens]	gb AAA36470.1	65%	86	373
HOGDP10	HOGDP10 R	1576	blastx.2	keratin [Homo sapiens]	emb CAA73943.1	89%	3	287
HOGDQ95	HOGDQ95 R	1578	blastx.2	FUSE binding protein 3 [Homo sapiens]	gb AAC50893.1	90% 32% 62% 48%	70 157 390 413	435 378 461 493
HOGDR70	HOGDR70 R	1579	blastx.2	gamma subunit of CCT chaperonin [Homo sapiens]	emb CAA52808.1	83%	102	578
HOGDV93	HOGDV93 R	1580	blastx.2	glyceraldehyde 3-phosphate dehydrogenase (EC 1.2.1.12) [Homo sapiens]	gb AAA52496.1	98%	4	414
HOGEA27	HOGEA27	1581	blastx.2	cytokeratin 8 [Homo sapiens]	gb AAA35763.1	81%	2	160

	R			sapiens]				
HOGED85	HOGED85 R	1582	blastx.2	AP-3 complex beta3A subunit [Homo sapiens]	gb AAD03778.1	75%	3	482
						85%	305	445
						25%	6	173
HOG EK25	HOG EK25 R	1583	blastx.2	HLA-Aw34.2 antigen [Homo sapiens]	emb CAA43874.1	91%	38	316
HOGEN30	HOGEN30 R	1584	blastx.2	regulatory subunit RI alpha [Homo sapiens]	emb CAA01027.1	83%	140	322
HOG EP69	HOG EP69R	1587	blastx.2	(AF056182) G-protein beta subunit [Emericella nidulans]	gb AAC33436.1	75%	83	205
						78%	219	260
HOGE T60	HOGE T60R	1588	blastx.2	Plakoglobin [Homo sapiens]	gb AAA64895.1	67%	155	367
HOGE W58	HOGE W58 R	1590	blastx.2	focal adhesion kinase [Homo sapiens]	gb AAA35819.1	96%	4	414
HOG EZ03	HOG EZ03R	1592	blastx.2	kinase [Homo sapiens]	emb CAA65450.1	87%	52	144
						83%	18	53
HOOHL68	HOOHL68 R	1601	blastx.2	ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1]	gb AAB00807.1	92%	373	543
HOOHP84	HOOHP84 R	1602	blastx.2	(AF013215) ribosomal protein S2 [Bos taurus]	gb AAB65437.1	82%	1	156
HOOHQ09	HOOHQ09 R	1603	blastx.2	pfxblue fusion protein [synthetic construct]	gb AAA72865.1	63%	292	423
HOOHQ83	HOOHQ83 R	1604	blastx.2	(AB000910) ribosomal protein [Sus scrofa]	dbj BAA19210.1	100%	85	399
HOOHR81	HOOHR81 R	1605	blastx.2	pfxblue fusion protein [synthetic construct]	gb AAA72865.1	73%	336	458
						78%	464	505
HOOHT13	HOOHT13	1608	blastx.2	steroid receptor TR2-11	gb AAA36761.1	95%	3	188



HOOIA46	R	1610	blastx.2	[Homo sapiens] cpn10 protein [Bos taurus]	emb CAA49288.1	95%	193	264
HOOIB54		1613	blastx.2	ribosomal protein L23a [Homo sapiens]	gb AAB17510.1	75%	89	199
HOOIG71		1615	blastx.2	ribosomal protein L27 [Homo sapiens]	gb AAA19815.1	98%	2	250
HOOJN84		1624	blastx.2	IEF 7442 [Homo sapiens]	emb CAA51360.1	100%	4	189
HOOJT32		1629	blastx.2	ribosomal protein L23a [Homo sapiens]	gb AAA03341.1	76%	34	237
HOOJT65		1630	blastx.2	(AJ388520) Ribosomal protein [Canis familiaris]	emb CAB46822.1	88%	43	123
HOOJY44		1636	blastx.2	human homologue of rat phosphatidy/ethanolami ne binding protein [Homo sapiens]	dbj BAA03684.1	100%	2	184
HOOJY80		1637	blastx.2	cytochrome b5 [Homo sapiens]	gb AAA35729.1	98%	61	462
HOOJY92		1638	blastx.2	mitochondrial matrix protein [Homo sapiens]	gb AAA60127.1	98% 91% 66% 62%	48 403 513 341	344 513 686 445
HOOKN43	R	1640	blastx.2	ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1]	gb AAB00807.1	63%	124	399
HOPJF95		1643	blastx.2	nucleolar protein p40	gb AAB46731.1	91%	209	511

HOPJG60	HOPJG60R	1644	blastx.2	[Homo sapiens] (AF161386) HSPC268 [Homo sapiens]	gb AAF28946.1 AF1 61386 1	90%	130	219
HOPJG79	HOPJG79R	1646	blastx.2	prosomal P27K protein [Homo sapiens]	emb CAA42052.1	97%	3	551
HOPJH65	HOPJH65R	1650	blastx.2	C gamma 3 [Homo sapiens]	emb CAA27268.1	57%	535	594
HOPKA06	HOPKA06 R	1656	blastx.2	homeotic protein HOX4E - human	pir A42008 A42008	46%	42	476
HOPKG16	HOPKG16 R	1659	blastx.2	scar protein [Homo sapiens]	gb AAA36597.1	44%	182	460
HOPKG47	HOPKG47 R	1660	blastx.2	(AL050318) dJ977B1.5 (myosin regulatory light chain 2, smooth muscle isoform) [Homo sapiens]	emb CAB75369.1	34%	172	543
HOPKG83	HOPKG83 R	1661	blastx.2	elongation factor-1- beta [Homo sapiens]	emb CAA43019.1	100%	2	49
HOPKK38	HOPKK38 R	1662	blastx.2	(AF077539) contains similarity to human melanoma antigen p15 (GB: U19796) [Caenorhabditis elegans]	gb AAC26291.1	95%	2	655
HOPKN14	HOPKN14 R	1663	blastx.2	aldolase A (EC 4.1.3.13) [Homo sapiens]	gb AAA51690.1	98%	1	432
						98%	46	519
						83%	525	560
						99%	34	594
						50%	584	709
						84%	615	653
						34%	60	380
						61%	379	417
						100%	2	460

HOPKN67	HOPKN67 R	1664	blastx.2	17,000 dalton myosin light chain [Bos taurus]	emb CAA38722.1	94%	31	483
HOPKO04	HOPKO04 RA	1665	blastx.2	(AL137423) hypothetical protein [Homo sapiens]	emb CAB70733.1	96%	1	81
HOPKO61	HOPKO61 R	1666	blastx.2	Six5 [Mus musculus]	dbj BAA11824.1	76%	4	405
HOPKP45	HOPKP45R	1667	blastx.2	PAX8=paired-box- protein [alternatively spliced] [human, 1	gb AAB34216.1	90% 90% 41% 35%	285 154 494 385	527 285 601 435
HOPKQ20	HOPKQ20 R	1668	blastx.2	ribosomal protein S20 [Homo sapiens]	gb AAA60286.1	82%	115	435
HOPKQ82	HOPKQ82 R	1669	blastx.2	(AF063243) ribosomal protein L30 [Bos taurus]	gb AAC16388.1	89%	28	498
HOPKR56	HOPKR56R	1670	blastx.2	unnamed protein product [Homo sapiens]	emb CAA02873.1	100%	6	173
HOPKU33	HOPKU33 R	1671	blastx.2	ribosomal protein L11 [Homo sapiens]	gb AAC15856.1	86%	5	514
HOVBK49	HOVBK49 R	1674	blastx.2	(AL080125) hypothetical protein [Homo sapiens]	emb CAB45723.1	85% 80% 75% 70% 79% 60% 73% 66% 63%	12 21 21 21 21 21 21 21 21	155 155 155 170 152 203 155 155 152

							61%	12	152
							63%	21	152
							40%	112	369
							40%	121	375
							38%	121	375
							38%	121	372
							36%	121	375
							46%	24	170
							34%	121	375
							34%	121	375
							32%	121	375
							38%	27	173
							42%	258	407
							34%	178	369
							36%	258	407
							37%	264	407
							34%	261	407
							39%	264	407
							34%	258	407
							32%	258	407
							31%	261	401
							30%	258	407
							36%	27	152
							52%	243	305
							28%	42	146
HOVBS15	HOVBS15R	1675	blastx.2	(AF105715) ubiquitous nuclear protein [Gallus gallus]	gb AAD46422.1 AF105715_1	50%	246	434	
						55%	50	109	
						34%	112	249	
HOVBX41	HOVBX41R	1676	blastx.2	(AF025331) receptor for activated protein	gb AAB81618.1	86%	182	319	
						75%	340	399	

HOVCN03	HOVCN03 R	1678	blastx.2	kinase C [Oreochromis niloticus] (AJ005798) thyroid hormone receptor alpha 2 [Sus scrofa]	emb CAA06702.1	72%	309	341
HOVCU89	HOVCU89 R	1680	blastx.2	ribosomal protein L18a - rat	pir S03957 R5RT18	72%	36	578
HOVCV33	HOVCV33 R	1681	blastx.2	alpha-smooth muscle actin [Oryctolagus cuniculus]	emb CAA43139.1	92% 50%	1 287	321 454
HOVCW45	HOVCW45 R	1682	blastx.2	(AL137585) hypothetical protein [Homo sapiens]	emb CAB70827.1	97% 100% 80% 21% 23%	2 372 463 5 35	220 464 522 196 190
HOVCZ45	HOVCZ45 R	1684	blastx.2	retrovirus-related polyprotein pseudogene - human 1	pir A44282 A44282	65% 61%	2 444	361 506
HOVDB61	HOVDB61 R	1686	blastx.2	(AF067728) transactivating protein BRIDGE [Rattus norvegicus]	gb AAD32925.1 AF067728_1	89%	91	204
HOVDB65	HOVDB65 R	1688	blastx.2	ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1	96%	112	282
HOVDG71	HOVDG71 R	1692	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	75% 81% 27%	116 3 103	226 98 210
HOVDH09	HOVDH09 R	1693	blastx.2	binding protein [Homo sapiens]	gb AAA36032.1	98% 81%	15 405	299 485

HOVDH75	HOVDH75 R	1694	blastx.2	ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1	81%	316	381
HOVDV70	HOVDV70 R	1696	blastx.2	(AF151866) CGI-108 protein [Homo sapiens]	gb AAD34103.1 AF151866_1	69%	126	433
HOVEF34	HOVEF34R	1703	blastx.2	MTHSP75 [Homo sapiens]	gb AAA67526.1	71%	246	297
HOVEF81	HOVEF81R	1704	blastx.2	thyroid receptor interactor [Homo sapiens]	gb AAA73877.1	90%	580	612
HOVEL51	HOVEL51R	1707	blastx.2	cytochrome c-1 [Homo sapiens]	gb AAA52135.1	71%	96	209
HOVEY58	HOVEY58 R	1712	blastx.2	ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1	77%	21	47
HOVJJ09	HOVJJ09R	1717	blastx.2	Lutheran blood group glycoprotein [Homo sapiens]	emb CAA58449.1	93%	277	369
HOVJR56	HOVJR56R	1718	blastx.2	macrophage migration inhibitory factor [Homo sapiens]	gb AAA21814.1	100%	4	576
HOVJU75	HOVJU75R	1719	blastx.2	laminin-binding protein [Homo sapiens]	gb AAA36161.1	100%	64	186
HOVJW17	HOVJW17 R	1720	blastx.2	HLA-DR-beta-A [Homo sapiens]	emb CAA00596.1	92%	95	648
HOVJY68	HOVJY68R	1721	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	92%	217	217
						94%	217	570
						97%	15	221

HOVKE66	HOVKE66 R	1723	blastx.2	unnamed protein product [unidentified]	emb CAB69339.1	35%	149	241
HOVKG18	HOVKG18 R	1725	blastx.2	PBG-D (aa 1-344) [Homo sapiens]	emb CAA27801.1	98%	2	487
HPAMB11	HPAMB11 R	1726	blastx.2	transformation-related protein [Homo sapiens]	gb AAA36776.1	98%	2	379
HPAMB60	HPAMB60 R	1727	blastx.2	poly(A)-binding protein [Homo sapiens]	gb AAD08718.1	80%	2	679
						41%	65	556
						31%	65	553
						38%	496	684
HPAMB93	HPAMB93 R	1729	blastx.2	heat-shock protein [Canis familiaris]	gb AAA87172.1	74%	17	253
						95%	231	299
HPAMC04	HPAMC04 R	1730	blastx.2	ADP-ribosylation factor [Homo sapiens]	gb AAA57126.1	50%	140	331
HPAMC19	HPAMC19 R	1731	blastx.2	Nascent polypeptide associated complex alpha subunit [Homo sapiens]	emb CAA56869.1	94%	89	676
HPAMC27	HPAMC27 R	1732	blastx.2	protein synthesis initiation factor 4A [Mus musculus]	emb CAA40268.1	88%	64	786
						50%	746	805
HPAMC90	HPAMC90 R	1733	blastx.2	HBp15/L22 [Sus scrofa]	dbj BAA04547.1	97%	84	464
HPAMD56	HPAMD56 R	1734	blastx.2	isolog of yeast sui1 and rice gos2; putative [Homo sapiens]	gb AAA60602.1	99%	136	456
HPAME35	HPAME35 R	1735	blastx.2	amphiglycan [Homo sapiens]	emb CAA47406.1	80%	26	451

HPAMF16	HPAMF16 R	1737	blastx.2	actin [Dictyostelium discoideum]	gb AAA74186.1	45%	178	414
HPAMF38	HPAMF38 R	1738	blastx.2	(AF132970) CGI-36 protein [Homo sapiens]	gb AAD27745.1 AF1 32970.1	73%	452	520
HPAMG44	HPAMG44 R	1739	blastx.2	(AC004393) Similar to ribosomal protein L17	gb AAC18792.1	42%	619	732
HPAMG54	HPAMG54 R	1740	blastx.2	gb X62724 from 1 1 (AF039752) histone deacetylase-2; HD-2 [Gallus gallus]	gb AAB96924.1	76%	63	434
HPAMI11	HPAMI11R	1741	blastx.2	ribosomal protein S8 [Homo sapiens]	emb CAA47670.1	61%	331	612
HPAMJ71	HPAMJ71R	1742	blastx.2	ribosomal protein S7 [Homo sapiens]	emb CAA81022.1	59%	117	374
HPAMQ76	HPAMQ76 R	1744	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	94%	75	389
HPAMT47	HPAMT47 R	1745	blastx.2	(AF017153) putative RNA helicase and RNA dependent ATPase [Mus musculus]	gb AAC36129.1	95%	394	516
HPAMU33	HPAMU33 R	1746	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	77%	518	661
HPAMW4	HPAMW44 R	1748	blastx.2	(AC006127) BRG-1- HUMAN [AA 812- 1440]; nuclear protein GRB1; 1 1 SNF2L4	gb AAC97986.1	68%	627	701
						87%	11	592
						97%	62	397
						64%	412	609
						63%	405	494
						100%	2	190
						100%	381	509
						98%	2	493
						80%	472	600
						69%	4	354
						91%	221	358
						42%	46	159



HPAMY45	HPAMY45 R	1749	blastx.2	[Homo sapiens] (AC004908) similar to ribosomal protein L23a; similar to P29316 (PID:g132848) [Homo sapiens]	gb AAD05196.1	95% 92%	294 220	563 297
HPAMZ14	HPAMZ14 R	1750	blastx.2	triosephosphate isomerase [Rattus norvegicus]	gb AAA42278.1	93% 61%	20 508	508 600
HPAMZ15	HPAMZ15 R	1751	blastx.2	(AJ006776) IF2 protein [Homo sapiens]	emb CAB44357.1	95%	3	149
HPAMZ81	HPAMZ81 R	1752	blastx.2	SP-40,40 prepropeptide (AA -22 to 427) [Homo sapiens]	emb CAA32847.1	99% 62%	3 581	599 676
HPANA05	HPANA05 R	1753	blastx.2	cell surface glycoprotein [Homo sapiens]	gb AAA36033.1	99% 61% 88%	107 466 579	487 729 605
HPANA07	HPANA07 R	1754	blastx.2	nucleolin [Homo sapiens]	gb AAA59954.1	92% 34% 58%	7 19 626	678 678 697
HPANA28	HPANA28 R	1755	blastx.2	cell surface glycoprotein [Homo sapiens]	gb AAA36033.1	100%	2	376
HPANB32	HPANB32R	1757	blastx.2	(AF078820) high mobility group protein [Spalax ehrenbergi]	gb AAC27653.2	93%	5	235
HPANE49	HPANE49R	1759	blastx.2	ribosomal protein S17 [Homo sapiens]	gb AAA60284.1	99%	8	412
HPANE52	HPANE52R	1760	blastx.2	23 kD highly basic	emb CAA40254.1	95%	13	624

HPANE87	HPANE87R	1761	blastx.2	protein [Homo sapiens] lactate dehydrogenase B [Homo sapiens]	emb CAA32033.1	82%	119	592
HPANJ67	HPANJ67R	1762	blastx.2	lipocortin II [Homo sapiens]	dbj BAA00013.1	48%	34	174
HPCOJ59	HPCOJ59R	1766	blastx.2	predicted using Genefinder; Similarity to Drosophila RNA 1 this gene [Caenorhabditis elegans]	emb CAB01127.1	100%	3	119
HPCOL81	HPCOL81R	1770	blastx.2	histone H2A.Z (AA 1-127) [Bos taurus]	emb CAA36554.1	32%	60	260
HPCOO90	HPCOO90R	1771	blastx.2	ribosomal protein L37a [Homo sapiens]	gb AAA60280.1	100%	36	179
HPCOO95	HPCOO95R	1772	blastx.2	HYPOTHEICAL PROTEIN (FRAGMENT).	sp Q16465 YZA1_HUMAN	98%	60	335
HPCOP23	HPCOP23R	1773	blastx.2	ribosomal protein [Homo sapiens]	gb AAA16105.1	100%	337	2
HPCOR52	HPCOR52R	1778	blastx.2	ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1	88%	53	427
HPCOV35	HPCOV35R	1780	blastx.2	ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1	94%	136	306
HPCOV41	HPCOV41R	1781	blastx.2	Csa-19 [Homo sapiens]	gb AAA86463.1	94%	244	414
HPCPD26	HPCPD26R	1784	blastx.2	alpha subunit (aa 1-394) [Bos taurus]	emb CAA27137.1	97%	54	356
							3	314

HPCPH52	HPCPH52R	1788	blastx.2	antizyme inhibitor [Homo sapiens]	dbj BAA23593.1	100%	3	101
HPCPU27	HPCPU27R	1790	blastx.2	enhancer factor I chain A-D - rat	pir JC2022 JC2022	61%	3	185
HPCQT88	HPCQT88R	1797	blastx.2	integrin associated protein [Homo sapiens]	emb CAA80977.1	93% 90%	1 422	327 451
HPCQX47	HPCQX47R	1800	blastx.2	ribosomal protein L7a large subunit [Homo sapiens]	gb AAA60282.1	97% 92%	222 2	326 40
HPCTD21	HPCTD21R	1802	blastx.2	ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1]	gb AAB00807.1	96%	336	506
HPCTD23	HPCTD23R	1803	blastx.2	putative progesterone binding protein [Homo sapiens]	emb CAA73248.1	98%	2	190
HPCTD25	HPCTD25R	1804	blastx.2	ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1]	gb AAB00807.1	96%	374	544
HPCTF29	HPCTF29R	1806	blastx.2	ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1]	gb AAB00807.1	96%	209	379
HPCTF83	HPCTF83R	1807	blastx.2	major histocompatibility complex class II antigen beta chain, 1 Partial Mutant, 57 aa [Homo sapiens]	gb AAB28826.1	92%	58	177
HPCTI86	HPCTI86R	1809	blastx.2	H+-ATP synthase subunit b [Homo sapiens]	emb CAA42782.1	99%	1	306

HPCTO69	HPCTO69R	1811	blastx.2	(AF042857) lung cancer antigen NY-LU-12 variant A [Homo sapiens]	gb AAC05826.1	99%	77	538
HPCTV40	HPCTV40R	1815	blastx.2	ribosomal protein L35a (aa 1-110) [Rattus norvegicus]	emb CAA27193.1	99%	48	377
HPCTV53	HPCTV53R	1816	blastx.2	8.2 kDa differentiation factor [Homo sapiens]	emb CAA56100.1	85% 91% 100%	26 138 250	148 248 318
HPCTV92	HPCTV92R	1817	blastx.2	(AL117452) hypothetical protein [Homo sapiens]	emb CAB55934.1	85%	20	205
HPCTX22	HPCTX22R	1818	blastx.2	Aop1_Human, MER5(Aop1_Mouse)-like protein [Homo sapiens]	dbj BAA08389.1	100%	1	153
HPDOF81	HPDOF81R	1822	blastx.2	2,4-dienoyl-CoA reductase [Homo sapiens]	gb AAA67551.1	95% 64%	3 229	254 342
HPDOP05	HPDOP05R	1823	blastx.2	RNA polymerase II elongation factor-like protein [Homo sapiens]	emb CAA87392.1	100%	2	412
HPDOP20	HPDOP20R	1824	blastx.2	MHC HLA-DR-beta chain precursor old gene name 'HLA-DRA1' [Homo sapiens]	gb AAA59831.1	84%	45	542
HPDOS87	HPDOS87R	1825	blastx.2	40S ribosomal protein S14 [Podocoryne carnea]	emb CAA50506.1	95% 54% 91%	84 14 209	209 85 244

HPDOU54	HPDOU54 R	1826	blastx.2	N-acetyl-beta-glucosaminidase prepro-polypeptide [Homo sapiens]	gb AAA51828.1	54%	1	66
HPDOZ43	HPDOZ43R	1827	blastx.2	tripeptidyl peptidase II [Homo sapiens]	gb AAA63263.1	98% 89%	3 250	269 468
HPDPC90	HPDPC90R A	1829	blastx.2	(AF073298) small EDRK-rich factor 2 [Homo sapiens]	gb AAC63516.1	94%	64	489
HPDPH14	HPDPH14R	1830	blastx.2	QIZ 7F5 [Homo sapiens]	gb AAA36021.1	98%	318	485
HPDPQ16	HPDPQ16R	1835	blastx.2	ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1	92% 87%	121 87	291 110
HPDPR73	HPDPR73R	1836	blastx.2	(AJ010046) guanine nucleotide-exchange factor [Homo sapiens]	emb CAA08974.1	52%	349	519
HPDPS51	HPDPS51R	1837	blastx.2	(AF053356) ORF3, splicevariantc [Homo sapiens]	gb AAC78797.1	94%	131	460
HPDPS90	HPDPS90R	1838	blastx.2	(AB021643) gonadotropin inducible transcription repressor-3 [Homo sapiens]	dbj BAA86989.1	76%	2	214
						42% 36% 36% 32% 37% 48% 57% 60% 42%	128 125 125 155 292 325 325 325 325	337 319 319 319 399 402 387 384 402

HPDPX12	HPDPX12R P00B	1841	blastx.2	ribosomal protein S17 [Homo sapiens]			gb AAA60284.1	32%	390	518
HPDPY83	HPDPY83R P00B	1842	blastx.2	prothymosin alpha [Homo sapiens]			gb AAA60213.1	96%	199	393
HPDQC34	HPDQC34R	1843	blastx.2	(AF038129) polyubiquitin [Ovis aries]			gb AAB92373.1	95%	7	642
								94%	7	642
								97%	7	453
								94%	226	642
								64%	639	689
								61%	639	692
								61%	639	692
HPDQH11	HPDQH11 R	1845	blastx.2	ribosomal protein L37a [Homo sapiens]			gb AAA60280.1	100%	68	334
HPDQH34	HPDQH34 R	1846	blastx.2	(AF115850) PAR protein [Homo sapiens]			gb AAD09822.1	73%	3	371
								94%	345	494
								85%	226	267
								41%	178	240
HPDQI50	HPDQI50R	1847	blastx.2	succinate dehydrogenase flavoprotein subunit [Homo sapiens]			gb AAA20683.1	99%	18	539
HPDQI55	HPDQI55R	1848	blastx.2	(AL022577) dJ353H6.2.2 (SW1/SNF related, matrix associated, 1 (SNF2L1))			emb CAA18608.1	96%	1	441

HPDQR20	HPDQR20R	1851	blastx.2	(PUTATIVE isoform 2) [Homo sapiens] RNA polymerase II 140 kDa subunit. [Homo sapiens]	emb CAA45124.1	91% 60%	10 555	639 761
HPDQR88	HPDQR88R	1852	blastx.2	similar to putative ATP-dependent RNA helicase K03H1.2 of C.elegans(S41025) [Homo sapiens]	dbj BAA13213.1	90% 80%	2 555	550 584
HPDQS25	HPDQS25R	1854	blastx.2	Cctg [Xenopus laevis]	emb CAA59350.1	85% 72%	4 258	264 410
HPDQT32	HPDQT32R	1858	blastx.2	neuroleukin [Homo sapiens]	gb AAA36368.1	100%	3	410
HPDQU81	HPDQU81 R	1859	blastx.2	(AF068227) putative transmembrane protein [Homo sapiens]	gb AAC27614.1	98%	3	269
HPDQV07	HPDQV07 R	1860	blastx.2	ribosomal protein S7 [Homo sapiens]	emb CAA81022.1	71%	35	574
HPDQW39	HPDQW39 R	1862	blastx.2	(AF133093) ARD-1 N- acetyltransferase homologue [Mus musculus]	gb AAF22155.1 AF1 33093_10	100% 70%	113 466	466 705
HPDQX13	HPDQX13 R	1863	blastx.2	Histone H3 [Asparagus officinalis]	emb CAA57811.1	72%	119	337
HPDQY23	HPDQY23 R	1864	blastx.2	DNA binding protein [Homo sapiens]	emb CAB10847.1	97%	3	443
HPDQZ65	HPDQZ65R	1869	blastx.2	(AF199488) beta-actin [Coturnix coturnix]	gb AAF13710.1 AF1 99488_1	100% 63%	3 446	443 694

HPDRA44	HPDRA44R	1870	blastx.2	japonica] interferon regulatory factor 7 [Mus musculus]	gb AAB18626.1	72% 45%	4 362	240 559
HPDRA50	HPDRA50R	1871	blastx.2	actin [Diadromus pulchellus]	emb CAA62806.1	75%	16	189
HPDRF65	HPDRF65R	1872	blastx.2	ribosomal protein L8 [Homo sapiens]	emb CAA82248.1	58% 95% 50%	281 21 505	748 236 753
HPDRG73	HPDRG73R	1874	blastx.2	Ran [Canis familiaris]	emb CAA77980.1	94% 84%	50 451	460 528
HPDRM93	HPDRM93 R	1876	blastx.2	ribosomal protein L37 [Homo sapiens]	dbj BAA04888.1	86%	12	302
HPDRO04	HPDRO04R	1877	blastx.2	ribosomal protein L37 [Homo sapiens]	dbj BAA04888.1	100%	17	307
HPDRP36	HPDRP36R	1879	blastx.2	GLI-Krupple related protein [Homo sapiens]	gb AAA59467.1	100% 37% 78%	30 36 304	317 260 372
HPDRP41	HPDRP41R	1880	blastx.2	UHX1 protein [Homo sapiens]	gb AAC50450.1	88%	2	739
HPDRQ66	HPDRQ66R	1881	blastx.2	ribosomal protein [Homo sapiens]	emb CAA81488.1	91%	81	290
HPDRQ84	HPDRQ84R	1882	blastx.2	Nascent polypeptide associated complex alpha subunit [Homo sapiens]	emb CAA56869.1	79%	4	555
HPDRR71	HPDRR71R	1883	blastx.2	(AF081484) alpha- tubulin isoform 1 [Homo sapiens]	gb AAC31959.1	98% 100%	16 381	390 422



HPDRS46	HPDRS46R	1885	blastx.2	(AF195094) gamma actin-like protein [Mus musculus]	gb AF08293.1 AF195094_1	98% 69%	15 301	299 369
HPDRS87	HPDRS87R	1886	blastx.2	peptidylprolyl isomerase [Homo sapiens]	emb CAA37039.1	100%	14	508
HPDRT37	HPDRT37R	1888	blastx.2	leukocyte antigen F [Homo sapiens]	emb CAA34947.1	60%	3	560
HPDRU03	HPDRU03R	1890	blastx.2	(AL021366) cICK0721Q.4.1 (PHD finger protein 2) (isoform 2) [Homo sapiens]	emb CAA16159.1	98% 90%	59 247	244 276
HPDRU37	HPDRU37R	1891	blastx.2	HLA-A9HH antigen [Homo sapiens]	dbj BAA11936.1	96%	1	231
HPDRV73	HPDRV73R	1893	blastx.2	vimentin [Homo sapiens]	gb AAA61279.1	90%	4	573
HPDRW09	HPDRW09R	1895	blastx.2	MHC HLA-DR2(non-Dw2/non-Dw12)a glycoprotein beta-chain [Homo sapiens]	gb AAA36278.1	95%	1	222
HPDRY37	HPDRY37R	1897	blastx.2	type XVI collagen alpha 1 chain, alpha 1 (XVI) [human, 1	gb AAB25797.1	64% 88% 50% 50% 48% 48% 52% 50% 44%	2 310 310 307 310 310 307 310 286	598 516 522 516 522 522 489 486 522

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							43%	310	453
							41%	307	498
							64%	5	88
							58%	2	88
							41%	307	486
							62%	2	88
							43%	319	489
							61%	212	304
							40%	310	486
							54%	2	91
							44%	197	304
							42%	370	492
							30%	212	520
							31%	212	520
							58%	2	88
							58%	2	88
							48%	206	310
							58%	2	88
							55%	5	91
							43%	373	492
							45%	212	316
							55%	2	88
							56%	2	91
							38%	310	486
							32%	310	492
							50%	209	304
							38%	188	319
							57%	5	88
							54%	2	88
							57%	5	88

							57%	5	88
							58%	5	88
							55%	2	88
							55%	5	91
							51%	5	88
							55%	209	295
							48%	188	286
							53%	2	88
							51%	2	88
							54%	212	304
							48%	212	304
							55%	2	88
							55%	2	88
							55%	5	91
							50%	2	91
							46%	209	304
							41%	188	304
							45%	194	319
							48%	5	91
							42%	185	310
							51%	2	82
							45%	2	91
							47%	2	100
							41%	194	304
							51%	5	91
							46%	209	304
							40%	200	319
							36%	179	310
							55%	2	88
							47%	403	522

							46%	209	304
							44%	197	304
							53%	5	88
							50%	5	88
							51%	2	88
							41%	200	310
							53%	5	88
							44%	2	91
							53%	5	91
							45%	212	304
							48%	209	307
							54%	5	91
							48%	212	304
							45%	209	307
							53%	5	88
							45%	212	310
							42%	212	319
							51%	2	91
							43%	209	304
							45%	212	310
							47%	206	313
							46%	206	304
							40%	188	304
							48%	2	88
							53%	5	88
							53%	5	88
							48%	2	88
							46%	2	91
							50%	5	88
							42%	185	304

							41%	200	319
							46%	5	88
							48%	2	88
							46%	221	304
							45%	212	304
							50%	5	88
							48%	2	91
							48%	2	88
							48%	2	88
							47%	212	304
							53%	5	88
							42%	209	307
							44%	5	94
							46%	188	304
							41%	212	319
							37%	188	304
							58%	2	88
							48%	2	88
							50%	5	88
							51%	2	88
							52%	5	79
							50%	5	88
							44%	5	91
							51%	2	88
							50%	2	91
							46%	2	88
							46%	215	304
							45%	212	316
							40%	221	316
							50%	5	88

							41%	212	304
							41%	212	304
							40%	209	304
							48%	2	88
							44%	5	91
							50%	5	88
							44%	2	88
							48%	2	88
							51%	5	88
							48%	2	91
							48%	2	88
							45%	209	307
							43%	209	304
							45%	206	304
							41%	209	310
							41%	200	307
							54%	5	76
							52%	14	79
							48%	2	88
							50%	5	88
							50%	5	88
							41%	212	304
							42%	203	304
							38%	212	319
							50%	5	88
							45%	5	97
							45%	209	304
							38%	188	304
							36%	188	310
							52%	23	91

					2	48%	88
					2	48%	88
					212	48%	304
					212	41%	304
					188	38%	304
					14	52%	88
					2	44%	88
					5	51%	88
					188	41%	304
					209	40%	304
					212	40%	307
					212	40%	307
					236	48%	310
					212	41%	304
					209	40%	304
					185	37%	304
					185	35%	304
					23	53%	88
					5	46%	88
					23	54%	88
					203	50%	283
					2	44%	88
					212	41%	304
					209	43%	304
					32	61%	88
					23	51%	88
					5	50%	79
					5	41%	91
					197	40%	304
					2	50%	67



36%	5	91
38%	188	283
45%	2	88
45%	5	73
38%	212	310
47%	310	366
45%	209	274
37%	212	292
45%	212	304
41%	212	304
41%	488	595
38%	432	509
44%	2	67
50%	200	256
45%	2	67
37%	5	88
52%	456	506
47%	2	64
50%	485	532
35%	399	497
72%	488	520
53%	488	532
53%	488	532
45%	429	494
57%	491	532
40%	488	562
41%	451	522
39%	188	271
54%	488	520
63%	488	520

HPDRZ11	HPDRZ11R	1898	blastx.2	(AF012086) Ran. binding protein 2 [Homo sapiens]	gb AAC05596.1	40% 63% 50% 44% 42% 37% 40% 31% 32% 40% 36% 42% 60% 53% 53% 44% 55% 50% 56% 48% 53% 52% 48% 42% 44%	488 488 488 491 476 432 282 321 584 503 521 521 81 81 81 81 78 78 75 81 78 75 75 81 534	553 520 535 544 532 509 1 49 273 279 303 303 22 4 4 1 1 1 1 1 1 1 1 4 481
						98% 48% 60% 50% 46%	67 34 347 486 637	351 339 640 746 717

HPDRZ29	HPDRZ29R	1899	blastx.2	Lsc homologue [Homo sapiens]	emb CAA70356.1	50%	496	537
HPDVA01	HPDVA01R	1900	blastx.2	(AF153685) truncated calcium binding protein [Homo sapiens]	gb AAD51611.1 AF153685_1	81%	720	484
HPDVA06	HPDVA06R	1901	blastx.2	proteasome subunit HsN3 [Homo sapiens]	dbj BAA05647.1	87%	243	359
HPDVB70	HPDVB70R	1903	blastx.2	Ig mu chain C region, membrane-bound splice form - human	pir S16510 MHUM	93%	92	820
HPDVC28	HPDVC28R	1904	blastx.2	retrovirus-related polypeptide pseudogene - human 1	pir A44282 A44282	84%	62	436
HPDVG06	HPDVG06R	1906	blastx.2	immunoglobulin M heavy chain [Homo sapiens]	emb CAA47708.1	99%	3	326
HPDVI25	HPDVI25R	1908	blastx.2	APEX nuclease [Homo sapiens]	dbj BAA02633.1	83%	94	417
HPDVI95	HPDVI95R	1909	blastx.2	(AF067370) cytoplasmic dynein light chain; Tctex-1 [Bos taurus]	gb AAC39268.1	100%	3	338
HPDVK79	HPDVK79R	1911	blastx.2	TRANSCRIPTION FACTOR BTF3 (RNA POLYMERASE B TRANSCRIPTION 1)	sp Q64152 BTF3_MOUSE	77%	61	570
HPDVK93	HPDVK93R	1912	blastx.2	ribosomal protein L18a - rat	pir S03957 R5RT18	89%	116	634

HPDVL45	HPDVL45R	1914	blastx.2	cell cycle checkpoint control protein [Homo sapiens]	gb AAB39928.1	100%	4	303
HPDVL52	HPDVL52R	1915	blastx.2	hNop56 [Homo sapiens]	emb CAA72789.1	98% 56% 60% 29% 27% 31% 29% 28%	96 269 418 409 418 326 418 460	293 625 660 561 546 439 570 630
HPDVM61	HPDVM61R	1916	blastx.2	(AF123880) gag polyprotein [multiple sclerosis associated retrovirus element]	gb AAD48374.1	44%	5	268
HPDVM63	HPDVM63R	1917	blastx.2	(AF019036) human IgG1 neutralizing heavy chain with leader 1	gb AAF21613.1	97%	1	573
HPDVM86	HPDVM86R	1918	blastx.2	gamma-interferon-inducible protein precursor [Homo sapiens]	gb AAA36105.1	91% 100%	35 4	406 51
HPDVO67	HPDVO67R	1919	blastx.2	(AC005954) ZO-3 [Homo sapiens]	gb AAC72274.1	96% 84% 67% 41%	1 188 396 334	189 394 521 549
HPDVT37	HPDVT37R	1923	blastx.2	JUN-D protein [Mus musculus]	gb AAA39345.1	54% 78%	16 240	231 281
HPDVU28	HPDVU28	1924	blastx.2	protein phosphatase 2C	emb CAA74245.1	96%	163	693

HPDVU72	R	1925	blastx.2	gamma [Homo sapiens] similar to the Drosophila splicing regulator, 1 [Homo sapiens]	gb AAA19604.1	100% 37%	3 51	497 434
HPDVU88	HPDVU88 R	1926	blastx.2	glutathione peroxidase [Homo sapiens]	gb AAA67540.1	91% 72%	51 595	599 648
HPDVV78	HPDVV78 R	1927	blastx.2	keratin 18 [Homo sapiens]	gb AA59461.1	66% 85%	129 2	638 124
HPDWA88	HPDWA88 R	1929	blastx.2	calcium binding protein [Homo sapiens]	dbj BAA23325.1	94%	168	473
HPDWC30	HPDWC30 R	1931	blastx.2	GlcNac-1-P transferase [Homo sapiens]	emb CAB04787.1	85%	285	404
HPDWD67	HPDWD67 R	1934	blastx.2	open reading frame (458 AA) [Homo sapiens]	emb CAA36054.1	79%	319	14
HPDWD69	HPDWD69 R	1935	blastx.2	ribosomal protein S26 [Homo sapiens]	gb AAC26987.1	100%	9	353
HPDWD81	HPDWD81 R	1936	blastx.2	HLA-DRB4*0103 [Homo sapiens]	emb CAB06483.1	99% 63% 75% 44%	4 333 479 460	330 593 526 513
HPDWE11	HPDWE11 R	1937	blastx.2	polyadenylate binding protein [Homo sapiens]	gb AAB97309.1	82%	2	121
HPDWF93	HPDWF93 R	1939	blastx.2	Nascent polypeptide associated complex alpha subunit [Homo sapiens]	emb CAA56869.1	91%	16	483
HPDWL56	HPDWL56	1941	blastx.2	complement factor B	gb AAA16820.1	96%	83	379

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HPDWU55	HPDWU55 R	1955	blastx.2	protein disulfide isomerase-related protein (PDIR) [Homo sapiens]	dbj BAA08451.1	94% 37% 27%	1 1 1	726 624 636
HPDWU60	HPDWU60 R	1956	blastx.2	(AF151063) HSPC229 [Homo sapiens]	gb AAF36149.1 AF1 51063 1	93% 80%	176 598	565 657
HPDWU63	HPDWU63 R	1957	blastx.2	cytokeratin 15 (AA 1 - 456) [Homo sapiens]	emb CAA30535.1	100%	2	370
HSCPJ17	HSCPJ17R	1962	blastx.2	(AL031670) dJ681N20.2 (similar to FTLL1(ferritin, light 1	emb CAB43181.1	97% 88%	260 405	403 485
HSDIA22	HSDIA22R	1963	blastx.2	ATPase 6 [Homo sapiens]	emb CAA24031.1	77% 87% 47%	123 2 238	308 121 306
HSDIX73	HSDIX73R	1965	blastx.2	NADH dehydrogenase subunit 4L [Homo sapiens]	dbj BAA07296.1	86% 100%	2 178	175 258
HSDZJ21	HSDZJ21R	1968	blastx.2	cytochrome-c oxidase (EC 1.9.3.1) chain I - western lowland 1	pir C59153 C59153	82%	1	105
HSIFF84	HSIFF84R	1969	blastx.2	(AK002129) unnamed protein product [Homo sapiens]	dbj BAA92096.1	78%	143	6
HSKJR50	HSKJR50R	1970	blastx.2	translation initiation factor 3 47 kDa subunit [Homo sapiens]	gb AAD03467.1	86% 98% 50% 49% 45%	2 2 169 11 342	337 289 498 247 566
HSLHT27	HSLHT27R	1971	blastx.2	URF A6L (NADH dehydrogenase subunit)	emb CAA24030.1	80% 66%	2 2	139 121

HSODB16	HSODB16R	1972	blastx.2	[Homo sapiens] cytochrome oxidase subunit II [Homo sapiens]	gb AAA20843.1	93%	1	651
HSPSB24	HSPSB24R	1973	blastx.2	(AF076191) gamma- actin [Trichosurus vulpecula]	gb AAC26520.1	90%	61	732
HSPSB70	HSPSB70R	1974	blastx.2	BBC1 [Homo sapiens]	emb CAA45963.1	100%	3	539
HSPSB74	HSPSB74R	1975	blastx.2	WT1 [Xenopus laevis]	dbj BAA11522.1	98%	1	162
HSPSB80	HSPSB80R	1976	blastx.2	unc-18homologue [Homo sapiens]	dbj BAA19482.1	92%	2	691
HSPSC30	HSPSC30R	1977	blastx.2	cell surface glycoprotein [Homo sapiens]	gb AAA36033.1	91% 83% 100%	124 4 309	318 180 374
HSPSE86	HSPSE86R	1978	blastx.2	(AF161507) HSPC158 [Homo sapiens]	gb AAF29122.1 AF1 61507_1	91% 62% 54%	3 302 477	338 667 626
HSPSG03	HSPSG03R	1979	blastx.2	protein phosphatase 2A 65 kDa regulatory subunit, alpha isoform [Sus scrofa]	emb CAA84414.1	100%	3	191
HSPSG13	HSPSG13R	1980	blastx.2	protein p68 (AA 1-614) [Homo sapiens]	emb CAA33751.1	95% 76%	221 738	739 788
HSPSG42	HSPSG42R	1981	blastx.2	(AF056490) cAMP- specific phosphodiesterase 8A [Homo sapiens]	gb AAC39763.1	98%	3	554
HSPSG50	HSPSG50R	1982	blastx.2	(AB036829) skeletal muscle and kidney	dbj BAA92340.1	80%	132	578



HSPSG89	HSPSG89R	1983	blastx.2	enriched inositol phosphatase [Homo sapiens] (AF081484) alpha-tubulin isoform 1 [Homo sapiens]	gb AAC31959.1	97% 66%	106 629	645 700
HSPSH39	HSPSH39R	1984	blastx.2	(AB015610) ribosomal protein S4X [Chlorocebus aethiops]	dbj BAA36501.1	87%	68	772
HSPSH41	HSPSH41R	1985	blastx.2	SP-40,40 prepropeptide (AA-22 to 427) [Homo sapiens]	emb CAA32847.1	94% 95% 69%	129 367 480	404 498 683
HSPSH49	HSPSH49R	1986	blastx.2	ribosomal protein S6 [Homo sapiens]	gb AAA60289.1	83%	96	821
HSPSI65	HSPSI65R	1987	blastx.2	ribosomal protein L5 [Homo sapiens]	gb AAA85654.1	89%	3	755
HSPSJ71	HSPSJ71R	1988	blastx.2	medium tumor antigen-associated 61-kD protein [Homo sapiens]	gb AAA35531.1	91% 54%	2 660	346 749
HSPSJ72	HSPSJ72R	1989	blastx.2	BST-2 [Homo sapiens]	dbj BAA05679.1	92% 98% 50%	97 410 561	432 592 632
HSPSQ22	HSPSQ22R	1990	blastx.2	UbcH5C [Homo sapiens]	gb AAA91461.1	100%	7	339
HSPSQ57	HSPSQ57R	1991	blastx.2	(AF044671) MM46 [Homo sapiens]	gb AAD02337.1	100%	16	327
HSPSY67	HSPSY67R	1992	blastx.2	MITOGEN-ACTIVATED PROTEIN KINASE 3	sp P27361 MK03_HUMAN	99% 51% 47%	2 385 402	385 537 545

HSPSZ69	HSPSZ69R	1993	blastx.2	(EC 2.7.1.-) 1 1 1 unnamed protein product [unidentified]	emb CAB69291.1	98%	2	283
HSPTA57	HSPTA57R	1994	blastx.2	scar protein [Homo sapiens]	gb AAA36597.1	90%	285	317
HSPTN57	HSPTN57R	1995	blastx.2	(AB015610) ribosomal protein S4X [Chlorocebus aethiops]	dbj BAA36501.1	64%	337	735
HSSDM17	HSSDM17 R	1996	blastx.2	(AL137714) hypothetical protein [Homo sapiens]	emb CAB70887.1	100%	318	338
HTLCU84	HTLCU84R	2001	blastx.2	RNA polymerase II elongation factor-like protein [Homo sapiens]	emb CAA87392.1	55%	2	157
HTSHG06	HTSHG06R	2002	blastx.2	URF 2 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24027.1	37%	178	360
HULAP70	HULAP70R	2005	blastx.2	cytochrome c oxidase subunit VIII precursor [Homo sapiens]	gb AAA99313.1	53%	356	400
HUSGA11	HUSGA11 R	2006	blastx.2	carbonate dehydratase [Homo sapiens]	emb CAA59331.1	94%	55	210
HUVFA39	HUVFA39 R	2009	blastx.2	extensin [Volvox carteri]	emb CAA46283.1	71%	185	541
HVCAA31	HVCAA31 R	2010	blastx.2	myosin regulatory light chain [Homo sapiens]	gb AAA67367.1	87%	107	364
HVCAA37	HVCAA37 R	2011	blastx.2	complement factor B [Homo sapiens]	gb AAA16820.1	94%	1	105
HVCAA94	HVCAA94	2013	blastx.2	F-1-ATPase beta-	gb AAA30395.1	100%	251	349
						63%	220	471
						100%	183	218
						34%	460	92
						34%	436	8
						98%	103	618
						96%	322	687
						88%	3	137
						95%	1	435

	R				subunit precursor [Bos taurus]		50%	440	643
HVCAB02	HVCAB02 R	2014	blastx.2		calcyphosine [Homo sapiens]	emb CAA66609.1	100%	489	512
HVCAB03	HVCAB03 R	2015	blastx.2		40S ribosomal protein S12 [Sus scrofa]	emb CAA55946.1	76%	128	703
HVCAB18	HVCAB18 R	2016	blastx.2		human homolog of DnaJ protein [Homo sapiens]	dbj BAA02656.1	67%	486	644
HVCAB52	HVCAB52 R	2018	blastx.2		'human homologue of rat ribosomal protein L9' [Homo sapiens]	dbj BAA03401.1	92%	386	664
HVCAB57	HVCAB57 R	2019	blastx.2		glyceraldehyde 3-phosphate dehydrogenase (EC 1.2.1.12) [Homo sapiens]	gb AAA52496.1	88%	133	288
HVCAB88	HVCAB88 R	2020	blastx.2		(AL022721) dJ109F14.2 (60S Ribosomal Protein RPL10A) [Homo sapiens]	emb CAB38627.1	89%	60	794
HVCAC42	HVCAC42 R	2021	blastx.2		diphtheria toxin receptor associated protein [Chlorocebus aethiops]	dbj BAA01569.1	98%	67	612
HVCAD52	HVCAD52 R	2022	blastx.2		translin [Homo sapiens]	emb CAA55341.1	98%	1	333
HVCAE01	HVCAE01 R	2023	blastx.2		laminin-binding protein [Homo sapiens]	gb AAA36161.1	70%	330	524
							99%	89	739
							67%	184	414
							86%	119	184
							38%	305	430
							72%	19	291
							99%	64	606
							47%	633	758

HVCAE15	HVCAE15 R	2024	blastx.2	lymphocyte antigen [Homo sapiens]	gb AAA59705.1	91%	3	695
HVCAE22	HVCAE22 R	2025	blastx.2	proteasome subunit C2 [Homo sapiens]	dbj BAA00656.1	97% 90%	86 489	487 554
HVCAE56	HVCAE56 R	2026	blastx.2	complement component C3 [Homo sapiens]	gb AAA85332.1	74%	75	707
HVCAG56	HVCAG56 R	2027	blastx.2	ribosomal protein L7 [Homo sapiens]	emb CAA37139.1	99%	3	551
HVCAH03	HVCAH03 R	2029	blastx.2	(AF030249) putative dienoyl-CoA isomerase [Homo sapiens]	gb AAB86485.1	96% 62%	63 577	599 657
HVCAH17	HVCAH17 R	2030	blastx.2	precursor [Homo sapiens]	emb CAA68392.1	90% 92%	1 299	294 340
HVCAH56	HVCAH56 R	2031	blastx.2	ribosomal protein L3 [Homo sapiens]	emb CAA51839.1	97%	3	407
HVCAI08	HVCAI08R	2032	blastx.2	(AF008304) protein inhibitor of neuronal nitric oxide synthase [Oryctolagus cuniculus]	gb AAC32530.1	100%	130	375
HVCAI79	HVCAI79R	2034	blastx.2	sortilin [Homo sapiens]	emb CAA66904.1	80%	2	559
HVCAJ27	HVCAJ27R	2035	blastx.2	(AK000449) unnamed protein product [Homo sapiens]	dbj BAA91172.1	99%	88	537
HVCAJ81	HVCAJ81R	2036	blastx.2	(AB036060) ubiquitin [Oncomorhynchus mykiss]	dbj BAA88568.1	100% 81%	97 404	405 469
HVCAJ95	HVCAJ95R	2037	blastx.2	(AF073298) small EDRK-rich factor 2	gb AAC63516.1	100%	34	210

HVCAK02	HVCAK02 R	2038	blastx.2	[Homo sapiens] hnRNP-E2 [Homo sapiens]	emb CAA55015.1	89% 90%	90 3	467 92
HVCAL06	HVCAL06 R	2039	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	96% 30% 39%	3 302 432	308 559 554
HVCAO17	HVCAO17 R	2040	blastx.2	Nm23 protein [Homo sapiens]	emb CAA35621.1	70%	4	531
HVCAO63	HVCAO63 R	2041	blastx.2	similar to tubulin alpha-2 chain [Caenorhabditis elegans]	emb CAA85463.1	76% 72% 47%	82 269 342	276 322 410
HVCAP89	HVCAP89R	2042	blastx.2	CTP synthetase homolog [Mus musculus]	gb AAB17729.1	83% 67% 29% 80%	69 509 520 681	512 643 669 710
HVCAQ53	HVCAQ53 R	2043	blastx.2	RPS16 [Homo sapiens]	gb AAA60583.1	100%	43	480
HVCAR87	HVCAR87 R	2045	blastx.2	glyceraldehyde 3-phosphate dehydrogenase (EC 1.2.1.12) [Homo sapiens]	gb AAA52496.1	74%	54	536
HVCAS08	HVCAS08R	2046	blastx.2	triose-phosphate isomerase [Pan troglodytes]	gb AAA35438.1	74% 55%	77 609	796 803
HVCAS52	HVCAS52R	2047	blastx.2	proteasome subunit C8 [Homo sapiens]	dbj BAA00659.1	94%	1	579
HVCAU64	HVCAU64	2049	blastx.2	23 kD highly basic	emb CAA40254.1	97%	57	401

HVCBD18	R	2050	blastx.2	protein [Homo sapiens] (AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	59%	396	196
HVCBE76	R	2051	blastx.2	ribosomal protein L27 [Homo sapiens]	gb AAA19815.1	80%	24	431
HVCBF38	R	2053	blastx.2	neurofibromatosis type 1 protein [Homo sapiens]	gb AAA74897.1	85% 41% 71% 42% 88%	6 274 483 517 452	236 636 524 594 478
HVCBF89	R	2054	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	78% 70% 50%	41 666 590	325 725 679
HVCBG01	R	2055	blastx.2	(AF184170) elongation factor 1-alpha [Sparus aurata]	gb AAD56406.1 AF1 84170_1	96% 37% 47% 40%	43 300 353 553	237 572 535 627
HVCBQ31	R	2056	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	90% 53% 45% 43%	65 327 328 482	343 647 663 559
HVCCA08	R	2057	blastx.2	neurofibromatosis type- 1-GTPase activating- protein type III [Mus musculus]	dbj BAA06395.1	60%	23	256
HVCCK34	R	2058	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	99%	94	696
HVCCV93	R	2060	blastx.2	AICAR formyltransferase/IMP	gb AAA97405.1	92% 58%	206 454	454 648

HVCDD19	HVCDD19 R	2062	blastx.2	cyclohydrolase bifunctional enzyme [Homo sapiens]	emb CAA40626.1	59%	564	674
HVCDF50	HVCDF50R	2063	blastx.2	similar to mouse Int-6 [Homo sapiens]	gb AAB58251.1	95% 63%	3 343	341 618
HVCDH77	HVCDH77 R	2064	blastx.2	3-methyl-adenine DNA glycosylase [Homo sapiens]	emb CAA93540.1	98%	2	640
HVVAB37	HVVAB37 R	2066	blastx.2	Ig mu chain C region - dog	pir A93131 MHDG	39% 40% 39% 65% 38%	215 78 61 2 294	700 401 267 61 347
HVVAC18	HVVAC18 R	2067	blastx.2	(AF035421) glyceraldehyde 3- phosphate dehydrogenase [Ovis 1]	gb AAB88484.1	47%	59	379
HVVAE73	HVVAE73 R	2069	blastx.2	(AJ001612) L-3- phosphoserine- phosphatase homologue [Homo sapiens]	emb CAA04865.1	91%	111	326
HVVAH91	HVVAH91 R	2071	blastx.2	(AL050109) hypothetical protein [Homo sapiens]	emb CAB43277.1	87%	54	245
HVVAI03	HVVAI03R	2072	blastx.2	ribosomal protein L31 (AA 1-125) [Homo sapiens]	emb CAA34066.1	98% 88% 61%	32 303 7	304 383 45

HVVAJ23	HVVAJ23R	2073	blastx.2	immunoglobulin lambda-chain [Homo sapiens]	gb AAA02915.1	80%	9	563
HVVAK46	HVVAK46 R	2077	blastx.2	v-fos transformation effector protein [Homo sapiens]	gb AAA58487.1	96% 61%	3 707	746 769
HVVAK85	HVVAK85 R	2079	blastx.2	unnamed protein product [unidentified]	emb CAA03726.1	94%	14	370
HVVAL81	HVVAL81 R	2080	blastx.2	phospholipase A2 [synthetic construct]	emb CAA01645.1	81%	157	471
HVVAS27	HVVAS27 RP00B	2082	blastx.2	ribosomal protein S17 [Homo sapiens]	gb AAA60284.1	99%	9	413
HVVAW2 6	HVVAW26 R	2083	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	74% 56% 78%	7 272 447	444 601 503
HVVB091	HVVB091 RP00B	2084	blastx.2	gamma non-muscle actin [Oryctolagus cuniculus]	emb CAA43140.1	99%	2	436
HVVB09	HVVB09R	2085	blastx.2	(AK001810) unnamed protein product [Homo sapiens]	dbj BAA91922.1	89%	3	206
HVVBH88	HVVBH88 R	2087	blastx.2	Na,K-ATPase alpha- subunit [Homo sapiens]	dbj BAA00061.1	74%	1	519
HVVB116	HVVB116R	2088	blastx.2	IgG [Homo sapiens]	gb AAA02914.1	69% 92%	32 577	562 618
HVVB08	HVVB08R	2089	blastx.2	(AB014876) ribosomal protein L13 [Cricetus griseus]	dbj BAA34291.1	81% 96% 52%	156 40 419	479 234 601
HVVB055	HVVB055R	2090	blastx.2	ribosomal protein S17	gb AAA60284.1	99%	9	413



	P00B			[Homo sapiens]				
HVVBK13	HVVBK13 R	2091	blastx.2	(AB022653) anti-Entamoeba histolytica immunoglobulin kappa 1	dbj BAA82102.1	88% 62% 43%	73 633 617	618 713 733
HVVB065	HVVB065 R	2092	blastx.2	immunoglobulin lambda light chain [Homo sapiens]	emb CAA75033.1	68%	12	623
HVVB088	HVVB088 R	2093	blastx.2	immunoglobulin heavy chain VH-III region [Homo sapiens]	gb AAA98800.1	82%	77	481
HVVB70	HVVB70 RP00B	2094	blastx.2	immunoglobulin lambda light chain [Homo sapiens]	emb CAA40958.1	68% 67%	20 318	334 491
HVVB60	HVVB60 R	2096	blastx.2	HYPOTHETICAL PROTEIN (FRAGMENT).	sp Q16465 YZA1_H_UMAN	100%	448	98
HVVCB04	HVVCB04 R	2098	blastx.2	heavy chain antibody 3D6 [synthetic construct]	emb CAA01549.1	69% 70% 30%	65 478 487	484 609 603
HVVCB08	HVVCB08 R	2099	blastx.2	(AB022653) anti-Entamoeba histolytica immunoglobulin kappa 1	dbj BAA82102.1	76%	73	735
HVVCC06	HVVCC06 R	2100	blastx.2	(AB005894) ecalectin [Homo sapiens]	dbj BAA31542.1	72% 85%	206 144	325 203
HVVC81	HVVC81 R	2102	blastx.2	glutathione S-transferase-pi [Homo sapiens]	gb AAA56823.1	96%	80	640

HVVCD90	HVVCD90 R	2104	blastx.2	type II mesothelial keratin K7 [Homo sapiens]	gb AAA36146.1	82%	98	748
HVVCE65	HVVCE65 R	2106	blastx.2	80K-H protein [Homo sapiens]	gb AAA52493.1	94%	2	214
HVVCF38	HVVCF38R	2107	blastx.2	immunoglobulin lambda light chain [Homo sapiens]	emb CAA37883.1	84%	114	467
HVVCG29	HVVCG29 R	2108	blastx.2	FB19 protein [Homo sapiens]	emb CAA73697.1	95%	1	375
						65%	1	384
						66%	1	375
						65%	19	375
						69%	19	375
						63%	19	375
						52%	19	378
						63%	1	285
						47%	19	387
						44%	19	378
						44%	58	399
						70%	654	725
HVVCG31	HVVCG31 R	2109	blastx.2	(AF061034) FIP2 [Homo sapiens]	gb AAC16046.1	91%	14	349
						98%	310	573
						60%	576	773
						25%	361	540
HVVCG46	HVVCG46 R	2110	blastx.2	phosphoglycerate kinase (EC 2.7.2.3) [Homo sapiens]	gb AAA60078.1	100%	3	350
HVVCG93	HVVCG93 R	2111	blastx.2	(AB021288) beta 2- microglobulin [Homo sapiens]	dbj BAA35182.1	100%	49	405

HVVCH28	HVVCH28 R	2112	blastx.2	(AF104913) eukaryotic protein synthesis initiation factor [Homo sapiens]	gb AAC82471.1	100%	3	350
HVVCI28	HVVCI28R	2113	blastx.2	extracellular matrix protein BM-40 (AA 1 - 303) [Homo sapiens]	emb CAA68724.1	100%	3	119
HVVCI50	HVVCI50R	2114	blastx.2	3D6 antibody light chain [synthetic construct]	emb CAA01550.1	89% 79% 75%	44 382 644	403 663 739
HVVCI85	HVVCI85R	2115	blastx.2	Ig gamma chain C region - chimpanzee	pir PT0207 PT0207	96% 80%	3 599	599 688
HVVCJ51	HVVCJ51R	2116	blastx.2	lysophosphatidic acid acyltransferase-beta [Homo sapiens]	gb AAB58776.1	94% 87%	1 273	261 371
HVVCCK78	HVVCCK78 R	2118	blastx.2	Ig light chain V11 region [Homo sapiens]	gb AAA20217.1	85% 77% 84%	27 242 298	248 307 336
HVVCL52	HVVCL52 R	2119	blastx.2	NuMA protein [Homo sapiens]	emb CAA77670.1	99%	1	339
HVVCL73	HVVCL73 R	2120	blastx.2	ribosomal protein small subunit [Homo sapiens]	gb AAA35682.1	100% 91%	14 674	583 775
HVVCM67	HVVCM67 R	2121	blastx.2	Immunoglobulin lambda chain [Homo sapiens]	gb AAC37563.1	95% 78%	3 283	284 378
HVVCM84	HVVCM84 R	2122	blastx.2	apoferritin H chain [Homo sapiens]	emb CAA25086.1	68%	3	407
HVVNCN20	HVVNCN20 R	2123	blastx.2	Hin-2 [Homo sapiens]	gb AAA64187.1	89% 71%	68 4	286 87

HVVCN54	HVVCN54 R	2125	blastx.2	[Human Ig rearranged gamma chain mRNA, V-J-C region and complete cds.], gene product [Homo sapiens]	gb AAA73002.1	70% 78%	17 17	388 337
HVVC013	HVVC013 R	2127	blastx.2	3D6 antibody light chain [synthetic construct]	emb CAA01550.1	79% 48%	8 549	550 695
HVVC016	HVVC016 R	2128	blastx.2	alpha SNAP [Homo sapiens]	gb AAC80170.1	96%	251	346
HVVC087	HVVC087 R	2129	blastx.2	(AF191829) heat-shock protein [Littorina plena]	gb AAF12788.1 AF1 91829_1	90% 51% 93%	30 359 457	389 469 501
HVVC041	HVVC041R	2130	blastx.2	(AB019120) seven transmembrane receptor [Rattus norvegicus]	dbj BAA82518.1	52% 54%	2 573	436 644
HVVC088	HVVC088R	2131	blastx.2	(AC002528) alpha2(I) collagen [Homo sapiens]	gb AAB69977.1	88% 50% 49% 48% 47% 48% 49% 51% 48% 47% 47% 50%	15 3 3 3 6 3 3 3 3 15 15 15	470 302 299 299 299 290 272 272 299 299 299 272

							47%	3	272
							46%	3	302
							53%	3	278
							48%	15	272
							46%	3	272
							45%	18	302
							51%	3	272
							45%	18	314
							47%	3	272
							46%	3	305
							49%	3	299
							45%	3	299
							44%	3	299
							45%	3	302
							45%	3	302
							48%	3	272
							45%	3	299
							51%	27	272
							44%	3	302
							49%	3	272
							45%	18	272
							47%	3	272
							47%	15	278
							48%	3	272
							45%	3	299
							45%	18	299
							43%	18	299
							47%	3	272
							42%	3	302
							45%	3	299

HVVCQ49	HVVCQ49 R	2133	blastx.2	(AF076191) gamma-actin [Trichosurus vulpecula]			48%	18	272
HVVCQ93	HVVCQ93 R	2135	blastx.2	90kDa heat shock protein [Homo sapiens]			45%	15	299
HVVC28	HVVC28R	2136	blastx.2	Rab5c protein [Canis familiaris]			42%	6	272
HVVC32	HVVC32R	2137	blastx.2	(AF015283) selenoprotein W [Homo sapiens]			44%	3	272
HVVCU50	HVVCU50 R	2141	blastx.2	ubiquitin-like protein [Homo sapiens]			43%	18	299
							48%	3	272
							42%	3	302
							43%	3	299
							44%	15	272
							43%	3	272
							43%	3	299
							46%	18	272
							43%	3	299
							43%	3	299
							41%	3	302
							38%	319	480
							43%	583	696
							76%	54	629
							89%	7	699
							91%	183	293
							80%	403	507
							100%	95	217
							100%	65	307

HVVCV41	HVVCV41 R	2142	blastx.2	(AB010491) natriuretic peptide A type receptor [Homo sapiens]	dbj BAA31199.1	100% 100% 66% 40%	2 309 283 399	292 482 309 479
HVVCW7 5	HVVCW75 R	2144	blastx.2	(AK000419) unnamed protein product [Homo sapiens]	dbj BAA91151.1	100%	3	410
HVVCX46	HVVCX46 R	2146	blastx.2	p48 [Homo sapiens]	gb BAB38382.1	54% 50% 100% 51%	71 418 354 654	712 747 431 734
HVVCY29	HVVCY29 R	2147	blastx.2	immunoglobulin gamma-2 heavy chain [Homo sapiens]	emb CAB58438.1	97%	2	715
HVVCY55	HVVCY55 R	2148	blastx.2	Hrs [Homo sapiens]	dbj BAA23366.1	99%	2	511
HVVCY60	HVVCY60 R	2149	blastx.2	elongation factor-1 alpha-chain protein (EF-1-alpha) [Xenopus 1]	gb AAA49700.1	86% 38% 42%	1 498 557	555 716 763
HVVCY62	HVVCY62 R	2150	blastx.2	(AF113887) kappa 1 immunoglobulin light chain [Homo sapiens]	gb AAD29608.1	90%	3	620
HVVCY75	HVVCY75 R	2151	blastx.2	ribosomal protein L34 [Rattus rattus]	emb CAA32574.1	96%	394	477
HVVCY77	HVVCY77 R	2152	blastx.2	phospholipid transfer protein [Homo sapiens]	gb AAA36443.1	98%	2	598
HVVCZ18	HVVCZ18 R	2153	blastx.2	UDP-GalNAc:polypeptide N-	emb CAA63371.1	95%	423	542

HVVDH44	HVVDH44 R	2156	blastx.2	acetyl galactosaminyltransferase (GalNAc-T3) [Homo sapiens] (AF013622) immunoglobulin heavy chain variable region [Homo 1 (AJ010446) immunoglobulin kappa light chain [Homo sapiens]	gb AAC39746.1	85%	20	562
HVVDM2 3	HVVDM23 R	2157	blastx.2	adenylyl cyclase-associated protein [Homo sapiens] (AF016365) hexokinase I [Homo sapiens]	emb CAA09185.1	80% 74% 62%	81 308 541	338 502 588
HVVDM3 1	HVVDM31 R	2158	blastx.2	ADP, ATP carrier protein T2 - human	gb AAA35507.1	98%	3	446
HVVDM4 5	HVVDM45 R	2159	blastx.2	Lon protease-like protein [Homo sapiens]	gb AAC15863.1	96%	66	155
HVVDN29	HVVDN29 R	2162	blastx.2	SM22 alpha [Homo sapiens]	pir S03894 S03894	95% 25% 56%	8 29 615	643 559 683
HVVDN77	HVVDN77 R	2163	blastx.2	destrin [Sus scrofa]	emb CAA53625.1	97%	4	594
HVVDP70	HVVDP70 R	2164	blastx.2	calpain (EC 3.4.22.17) large chain 1 - rabbit (fragments)	dbj BAA21839.1	92% 39% 48%	61 294 287	309 593 415
HVVDQ46	HVVDQ46 R	2165	blastx.2		dbj BAA14105.1	64% 56%	106 285	513 485
HVVDQ49	HVVDQ49 R	2166	blastx.2		pir A24815 A24815	97%	2	103



HVVDS12	HVVDS12 R	2167	blastx.2	Ig kappa chain NIG2 precursor - human	pir JE0244 JE0244	89%	91	726
HVVDS21	HVVDS21 R	2168	blastx.2	gamma subunit of CCT chaperonin [Homo sapiens]	emb CAA52808.1	95% 68%	74 690	727 746
HVVDS35	HVVDS35 R	2169	blastx.2	hevin [Homo sapiens]	emb CAA57650.1	88% 67%	80 636	736 803
HVVDT29	HVVDT29 R	2171	blastx.2	(AF065388) tetraspan NET-1 [Homo sapiens]	gb AAC17119.1	72%	121	612
HVVDT44	HVVDT44 R	2172	blastx.2	ch-TOG [Homo sapiens]	emb CAA63212.1	98%	2	460
HVVDW02	HVVDW02 R	2174	blastx.2	retinoic acid induced gene E [Homo sapiens]	emb CAA92321.1	79%	3	200
HVVDW61	HVVDW61 R	2175	blastx.2	chimeric monoklonal TSH antibody, gamma chain [synthetic construct]	emb CAA00676.1	86%	2	229
HVVDX90	HVVDX90 R	2177	blastx.2	(AF149822) mitotic checkpoint protein BUB3 [Mus musculus]	gb AAD38038.1 AF149822_1	84%	23	511
HWLME48	HWLME48 R	2181	blastx.2	calpain II [Sus scrofa]	gb AAB17381.1	95%	3	140
HWMB35	HWMB35 R	2183	blastx.2	ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1	96%	49	219

HWWEF9 0	HWWEF90 R	2185	blastx.2	(AL035461) dJ967N21.3 (novel protein similar to predicted 1	.emb CAB55274.1	95%	61	300
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[0048] Table 2 further characterizes certain encoded polypeptides of the invention, by providing the results of comparisons to protein and protein family databases. The first column provides a unique clone identifier, "Clone ID NO:", corresponding to a cDNA clone disclosed in Table 1. The second column provides the unique contig identifier, "Contig ID:" which allows correlation with the information in Table 1. The third column provides the sequence identifier, "SEQ ID NO:X", for the contig polynucleotide sequences. The fourth column provides the analysis method by which the homology/identity disclosed in the row was determined. The fifth column provides a description of PFam/NR hits having significant matches identified by each analysis. Column six provides the accession number of the PFam/NR hit disclosed in the fifth column. Column seven, "Score/Percent Identity", provides a quality score or the percent identity, of the hit disclosed in column five. Comparisons were made between polypeptides encoded by polynucleotides of the invention and a non-redundant protein database (herein referred to as "NR"), or a database of protein families (herein referred to as "PFam"), as described below.

[0049] The NR database, which comprises the NBRF PIR database, the NCBI GenPept database, and the SIB SwissProt and TrEMBL databases, was made non-redundant using the computer program nrdb2 (Warren Gish, Washington University in Saint Louis). Each of the polynucleotides shown in Table 1, column 3 (e.g., SEQ ID NO:X or the 'Query' sequence) was used to search against the NR database. The computer program BLASTX was used to compare a 6-frame translation of the Query sequence to the NR database (for information about the BLASTX algorithm please see Altschul et al., J. Mol. Biol. 215:403-410 (1990), and Gish et al., Nat. Genet. 3:266-272 (1993)). A description of the sequence that is most similar to the Query sequence (the highest scoring 'Subject') is shown in column five of Table 2 and the database accession number for that sequence is provided in column six. The highest scoring 'Subject' is reported in Table 2 if (a) the estimated probability that the match occurred by chance alone is less than  $1.0 \times 10^{-7}$ , and (b) the match was not to a known repetitive element. BLASTX returns alignments of short polypeptide segments of the Query and Subject sequences which share a high degree of similarity; these segments are known as High-Scoring Segment Pairs or HSPs. Table 2 reports the degree of similarity between the Query and the Subject for each HSP as a

percent identity in Column 7. The percent identity is determined by dividing the number of exact matches between the two aligned sequences in the HSP, dividing by the number of Query amino acids in the HSP and multiplying by 100. The polynucleotides of SEQ ID NO:X which encode the polypeptide sequence that generates an HSP are delineated by columns 8 and 9 of Table 2.

[0050] The PFam database, PFam version 5.2, (Sonnhammer et al., Nucl. Acids Res., 26:320-322, (1998)) consists of a series of multiple sequence alignments; one alignment for each protein family. Each multiple sequence alignment is converted into a probability model called a Hidden Markov Model, or HMM, that represents the position-specific variation among the sequences that make up the multiple sequence alignment (see, e.g., R. Durbin et al., *Biological sequence analysis: probabilistic models of proteins and nucleic acids*, Cambridge University Press, 1998 for the theory of HMMs). The program HMMER version 1.8 (Sean Eddy, Washington University in Saint Louis) was used to compare the predicted protein sequence for each Query sequence (SEQ ID NO:Y in Table 1) to each of the HMMs derived from PFam version 5.2. A HMM derived from PFam version 5.2 was said to be a significant match to a polypeptide of the invention if the score returned by HMMER 1.8 was greater than 0.8 times the HMMER 1.8 score obtained with the most distantly related known member of that protein family. The description of the PFam family which shares a significant match with a polypeptide of the invention is listed in column 5 of Table 2, and the database accession number of the PFam hit is provided in column 6. Column 7 provides the score returned by HMMER version 1.8 for the alignment. Columns 8 and 9 delineate the polynucleotides of SEQ ID NO:X which encode the polypeptide sequence which shows a significant match to a PFam protein family.

[0051] As mentioned, columns 8 and 9 in Table 2, "NT From" and "NT To", delineate the polynucleotides of "SEQ ID NO:X" that encode a polypeptide having a significant match to the PFam/NR database as disclosed in the fifth column of Table 2. In one embodiment, the invention provides a protein comprising, or alternatively consisting of, a polypeptide encoded by the polynucleotides of SEQ ID NO:X delineated in columns 8 and 9 of Table 2. Also provided are polynucleotides encoding such proteins, and the complementary strand thereto.

[0052] The nucleotide sequence SEQ ID NO:X and the translated SEQ ID NO:Y are sufficiently accurate and otherwise suitable for a variety of uses well known in the art and described further below. For instance, the nucleotide sequences of SEQ ID NO:X are useful for designing nucleic acid hybridization probes that will detect nucleic acid sequences contained in SEQ ID NO:X or the cDNA contained in Clone ID NO:Z. These probes will also hybridize to nucleic acid molecules in biological samples, thereby enabling immediate applications in chromosome mapping, linkage analysis, tissue identification and/or typing, and a variety of forensic and diagnostic methods of the invention. Similarly, polypeptides identified from SEQ ID NO:Y may be used to generate antibodies which bind specifically to these polypeptides, or fragments thereof, and/or to the polypeptides encoded by the cDNA clones identified in, for example, Table 1.

[0053] Nevertheless, DNA sequences generated by sequencing reactions can contain sequencing errors. The errors exist as misidentified nucleotides, or as insertions or deletions of nucleotides in the generated DNA sequence. The erroneously inserted or deleted nucleotides cause frame shifts in the reading frames of the predicted amino acid sequence. In these cases, the predicted amino acid sequence diverges from the actual amino acid sequence, even though the generated DNA sequence may be greater than 99.9% identical to the actual DNA sequence (for example, one base insertion or deletion in an open reading frame of over 1000 bases).

[0054] Accordingly, for those applications requiring precision in the nucleotide sequence or the amino acid sequence, the present invention provides not only the generated nucleotide sequence identified as SEQ ID NO:X, and a predicted translated amino acid sequence identified as SEQ ID NO:Y, but also a sample of plasmid DNA containing cDNA Clone ID NO:Z (deposited with the ATCC on June 5, 2000 and were given ATCC Deposit Nos. PTA-1982 and PTA-1985; and/or as set forth, for example, in Table 1, 6 and 7). The nucleotide sequence of each deposited clone can readily be determined by sequencing the deposited clone in accordance with known methods. Further, techniques known in the art can be used to verify the nucleotide sequences of SEQ ID NO:X. Techniques known in the art can be used to verify the nucleotide sequences of SEQ ID NO:X.

[0055] The predicted amino acid sequence can then be verified from such deposits. Moreover, the amino acid sequence of the protein encoded by a particular clone can also be directly determined by peptide sequencing or by expressing the protein in a suitable host cell containing the deposited human cDNA, collecting the protein, and determining its sequence.

*RACE Protocol For Recovery of Full-Length Genes*

[0056] Partial cDNA clones can be made full-length by utilizing the rapid amplification of cDNA ends (RACE) procedure described in Frohman, M.A., et al., Proc. Nat'l. Acad. Sci. USA, 85:8998-9002 (1988). A cDNA clone missing either the 5' or 3' end can be reconstructed to include the absent base pairs extending to the translational start or stop codon, respectively. In some cases, cDNAs are missing the start codon of translation. The following briefly describes a modification of this original 5' RACE procedure. Poly A<sup>+</sup> or total RNA is reverse transcribed with Superscript II (Gibco/BRL) and an antisense or complementary primer specific to the cDNA sequence. The primer is removed from the reaction with a Microcon Concentrator (Amicon). The first-strand cDNA is then tailed with dATP and terminal deoxynucleotide transferase (Gibco/BRL). Thus, an anchor sequence is produced which is needed for PCR amplification. The second strand is synthesized from the dA-tail in PCR buffer, Taq DNA polymerase (Perkin-Elmer Cetus), an oligo-dT primer containing three adjacent restriction sites (XhoI, SalI and ClaI) at the 5' end and a primer containing just these restriction sites. This double-stranded cDNA is PCR amplified for 40 cycles with the same primers as well as a nested cDNA-specific antisense primer. The PCR products are size-separated on an ethidium bromide-agarose gel and the region of gel containing cDNA products the predicted size of missing protein-coding DNA is removed. cDNA is purified from the agarose with the Magic PCR Prep kit (Promega), restriction digested with XhoI or SalI, and ligated to a plasmid such as pBluescript SKII (Stratagene) at XhoI and EcoRV sites. This DNA is transformed into bacteria and the plasmid clones sequenced to identify the correct protein-coding inserts. Correct 5' ends are confirmed by comparing this sequence with the putatively identified homologue and overlap with the partial cDNA clone. Similar methods known in the art and/or commercial kits are used to amplify and recover 3' ends.

[0057] Several quality-controlled kits are commercially available for purchase. Similar reagents and methods to those above are supplied in kit form from Gibco/BRL for both 5' and 3' RACE for recovery of full length genes. A second kit is available from Clontech which is a modification of a related technique, SLIC (single-stranded ligation to single-stranded cDNA), developed by Dumas et al., *Nucleic Acids Res.*, 19:5227-32 (1991). The major differences in procedure are that the RNA is alkaline hydrolyzed after reverse transcription and RNA ligase is used to join a restriction site-containing anchor primer to the first-strand cDNA. This obviates the necessity for the dA-tailing reaction which results in a polyT stretch that is difficult to sequence past.

[0058] An alternative to generating 5' or 3' cDNA from RNA is to use cDNA library double-stranded DNA. An asymmetric PCR-amplified antisense cDNA strand is synthesized with an antisense cDNA-specific primer and a plasmid-anchored primer. These primers are removed and a symmetric PCR reaction is performed with a nested cDNA-specific antisense primer and the plasmid-anchored primer.

*RNA Ligase Protocol For Generating The 5' or 3' End Sequences To Obtain Full Length Genes*

[0059] Once a gene of interest is identified, several methods are available for the identification of the 5' or 3' portions of the gene which may not be present in the original cDNA plasmid. These methods include, but are not limited to, filter probing, clone enrichment using specific probes and protocols similar and identical to 5' and 3' RACE. While the full length gene may be present in the library and can be identified by probing, a useful method for generating the 5' or 3' end is to use the existing sequence information from the original cDNA to generate the missing information. A method similar to 5' RACE is available for generating the missing 5' end of a desired full-length gene. (This method was published by Fromont-Racine et al., *Nucleic Acids Res.*, 21(7):1683-1684 (1993)). Briefly, a specific RNA oligonucleotide is ligated to the 5' ends of a population of RNA presumably containing full-length gene RNA transcript. A primer set containing a primer specific to the ligated RNA oligonucleotide and a primer specific to a known sequence of the gene of interest, is used to PCR amplify the 5' portion of the desired full length gene which may then be sequenced and used to generate the full length gene. This

method starts with total RNA isolated from the desired source, poly A RNA may be used but is not a prerequisite for this procedure. The RNA preparation may then be treated with phosphatase if necessary to eliminate 5' phosphate groups on degraded or damaged RNA which may interfere with the later RNA ligase step. The phosphatase if used is then inactivated and the RNA is treated with tobacco acid pyrophosphatase in order to remove the cap structure present at the 5' ends of messenger RNAs. This reaction leaves a 5' phosphate group at the 5' end of the cap cleaved RNA which can then be ligated to an RNA oligonucleotide using T4 RNA ligase. This modified RNA preparation can then be used as a template for first strand cDNA synthesis using a gene specific oligonucleotide. The first strand synthesis reaction can then be used as a template for PCR amplification of the desired 5' end using a primer specific to the ligated RNA oligonucleotide and a primer specific to the known sequence of the ovarian antigen of interest. The resultant product is then sequenced and analyzed to confirm that the 5' end sequence belongs to the relevant ovarian antigen.

[0060] The present invention also relates to vectors or plasmids, which include such DNA sequences, as well as the use of the DNA sequences. The material deposited with the ATCC (deposited with the ATCC on June 5, 2000 and were given ATCC Deposit Nos. PTA-1982 and PTA-1985; and/or as set forth, for example, in Table 1, 6 and 7) is a mixture of cDNA clones derived from a variety of human tissue and cloned in either a plasmid vector or a phage vector, as shown, for example, in Table 7. These deposits are referred to as "the deposits" herein. The tissues from which some of the clones were derived are listed in Table 7, and the vector in which the corresponding cDNA is contained is also indicated in Table 7. The deposited material includes cDNA clones corresponding to SEQ ID NO:X described, for example, in Table 1 (Clone ID NO:Z). A clone which is isolatable from the ATCC Deposits by use of a sequence listed as SEQ ID NO:X, may include the entire coding region of a human gene or in other cases such clone may include a substantial portion of the coding region of a human gene. Furthermore, although the sequence listing may in some instances list only a portion of the DNA sequence in a clone included in the ATCC Deposits, it is well within the ability of one skilled in the art to sequence the DNA included in a clone contained in the ATCC Deposits by use of a sequence (or portion thereof) described in, for example Tables 1A or



2 by procedures hereinafter further described, and others apparent to those skilled in the art.

[0061] Also provided in Table 7 is the name of the vector which contains the cDNA clone. Each vector is routinely used in the art. The following additional information is provided for convenience.

[0062] Vectors Lambda Zap (U.S. Patent Nos. 5,128,256 and 5,286,636), Uni-Zap XR (U.S. Patent Nos. 5,128,256 and 5,286,636), Zap Express (U.S. Patent Nos. 5,128,256 and 5,286,636), pBluescript (pBS) (Short, J. M. et al., *Nucleic Acids Res.* 16:7583-7600 (1988); Alting-Mees, M. A. and Short, J. M., *Nucleic Acids Res.* 17:9494 (1989)) and pBK (Alting-Mees, M. A. et al., *Strategies* 5:58-61 (1992)) are commercially available from Stratagene Cloning Systems, Inc., 11011 N. Torrey Pines Road, La Jolla, CA, 92037. pBS contains an ampicillin resistance gene and pBK contains a neomycin resistance gene. Phagemid pBS may be excised from the Lambda Zap and Uni-Zap XR vectors, and phagemid pBK may be excised from the Zap Express vector. Both phagemids may be transformed into *E. coli* strain XL-1 Blue, also available from Stratagene.

[0063] Vectors pSport1, pCMVSPORT 1.0, pCMVSPORT 2.0 and pCMVSPORT 3.0, were obtained from Life Technologies, Inc., P. O. Box 6009, Gaithersburg, MD 20897. All Sport vectors contain an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, also available from Life Technologies. See, for instance, Gruber, C. E., et al., *Focus* 15:59- (1993). Vector lafmid BA (Bento Soares, Columbia University, New York, NY) contains an ampicillin resistance gene and can be transformed into *E. coli* strain XL-1 Blue. Vector pCR<sup>®</sup>2.1, which is available from Invitrogen, 1600 Faraday Avenue, Carlsbad, CA 92008, contains an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, available from Life Technologies. See, for instance, Clark, J. M., *Nuc. Acids Res.* 16:9677-9686 (1988) and Mead, D. et al., *Bio/Technology* 9: (1991).

[0064] The present invention also relates to the genes corresponding to SEQ ID NO:X, SEQ ID NO:Y, and/or the deposited clone (Clone ID NO:Z). The corresponding gene can be isolated in accordance with known methods using the sequence information disclosed herein. Such methods include preparing probes or primers from the disclosed

sequence and identifying or amplifying the corresponding gene from appropriate sources of genomic material.

[0065] Also provided in the present invention are allelic variants, orthologs, and/or species homologs. Procedures known in the art can be used to obtain full-length genes, allelic variants, splice variants, full-length coding portions, orthologs, and/or species homologs of ovarian associated genes corresponding to SEQ ID NO:X or the complement thereof, polypeptides encoded by SEQ ID NO:X or the complement thereof, and/or the cDNA contained in Clone ID NO:Z, using information from the sequences disclosed herein or the clones deposited with the ATCC. For example, allelic variants and/or species homologs may be isolated and identified by making suitable probes or primers from the sequences provided herein and screening a suitable nucleic acid source for allelic variants and/or the desired homologue.

[0066] The polypeptides of the invention can be prepared in any suitable manner. Such polypeptides include isolated naturally occurring polypeptides, recombinantly produced polypeptides, synthetically produced polypeptides, or polypeptides produced by a combination of these methods. Means for preparing such polypeptides are well understood in the art.

[0067] The polypeptides may be in the form of the secreted protein, including the mature form, or may be a part of a larger protein, such as a fusion protein (see below). It is often advantageous to include an additional amino acid sequence which contains secretory or leader sequences, pro-sequences, sequences which aid in purification, such as multiple histidine residues, or an additional sequence for stability during recombinant production.

[0068] The polypeptides of the present invention are preferably provided in an isolated form, and preferably are substantially purified. A recombinantly produced version of a polypeptide, including the secreted polypeptide, can be substantially purified using techniques described herein or otherwise known in the art, such as, for example, by the one-step method described in Smith and Johnson, Gene 67:31-40 (1988). Polypeptides of the invention also can be purified from natural, synthetic or recombinant sources using techniques described herein or otherwise known in the art, such as, for

example, antibodies of the invention raised against the ovarian polypeptides of the present invention in methods which are well known in the art.

[0069] The present invention provides a polynucleotide comprising, or alternatively consisting of, the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA sequence contained in Clone ID NO:Z. The present invention also provides a polypeptide comprising, or alternatively, consisting of, the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X or a complement thereof, and/or a polypeptide encoded by the cDNA contained in Clone ID NO:Z. Polynucleotides encoding a polypeptide comprising, or alternatively consisting of the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X, and/or a polypeptide encoded by the cDNA contained in Clone ID NO:Z are also encompassed by the invention. The present invention further encompasses a polynucleotide comprising, or alternatively consisting of, the complement of the nucleic acid sequence of SEQ ID NO:X, a nucleic acid sequence encoding a polypeptide encoded by the complement of the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA contained in Clone ID NO:Z.

[0070] Many polynucleotide sequences, such as EST sequences, are publicly available and accessible through sequence databases and may have been publicly available prior to conception of the present invention. Preferably, such related polynucleotides are specifically excluded from the scope of the present invention. Accordingly, for each contig sequence (SEQ ID NO:X) listed in the third column of Table 1, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 and the final nucleotide minus 15 of SEQ ID NO:X, b is an integer of 15 to the final nucleotide of SEQ ID NO:X, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:X, and where b is greater than or equal to a + 14. More specifically, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a and b are integers as defined in columns 4 and 5, respectively, of Table 3. In specific embodiments, the polynucleotides of the invention do not consist of at least one, two, three, four, five, ten, or more of the specific polynucleotide sequences referenced by the Genbank Accession No. as disclosed in column 6 of Table 3. In further embodiments, preferably excluded from the invention are the specific polynucleotide

sequence(s) contained in the clones corresponding to at least one, two, three, four, five, ten, or more of the available material having the accession numbers identified in the sixth column of this Table. In no way is this listing meant to encompass all of the sequences which may be excluded by the general formula, it is just a representative example. All references available through these accessions are hereby incorporated by reference in their entirety.

**TABLE 3**

Clone ID NO: Z	SEQ ID NO: X	Contig ID:	EST Disclaimer Range of a Range of b		Accession #'s
			1 - 314	15 - 328	
HOVCD34	11	396327			BF032064, T40388, BG223493, AI917132, BF526832, AI554435, H86931, AC007262, AC026722, Z98742, AP000115, AL121969, AL159996, AP001717, AL353771, AL354674, AL353802, AL031846, AP000308, AL139343, Z97629, AC010135, AL049832, AP000048, AL020995, AC011292, AC007955, AL356103, AC004938, AC002492, AC068811, AC023511, AL008721, AC011749, AL024473, AC006354, AC002351, Z93015, AC007172, AC005230, AL139342, AF165926, AL121902, AC007025, AC005181, AL158841, AC011742, AL163201, AC009024, AC008269, AL139277, AC007964, AC007938, AF205588, AL139185, AC006478, AC007784, AL034395, AL136000, AC007344, AC010731, AL122013, AC002288, AL359751, AL121721, AC066590, AL139232, AC024164, AL031662, AC007358, AC009481, AL050335, AL033533, AC010789, AC009498, AC007850, AL020998, AC018684, AL034451, AL135783, AC008066, AC005030, AL049562, AL138706, Z95125, AC007461, AC011475, AL117337, AL117694, AL121915, AL049776, AL078596, AL035089, AL096764, AL049563, AC002553, AL035067, AC007458, AC018642, AC005550, Z99496, Z98036, Z99291, AC003119, AC007446, AC020751, AC068314, AC003035, X87344, AC066598, AC073175, AL139351, AC012156, AC006314, AC010582, AC018832, AC006142, AL139353, and AL163247.
HEBGD58	12	498281	1 - 340	15 - 354	BG253988, BF508504, AA187211, H44280, BG251021, AA431830, AW962811, AA355921, H06638, BG259131, AV729233, BG119160, BG027014, T48526, AW298232, and AL138828.
HETCD42	13	533532	1 - 2333	15 - 2347	AL079360, AU137870, AU139146, BG260515, AV714769, AU137391, BF984453, AV713475, AV757390, AU138193, BF981793, AV713896, BE886752, BE889586, AW863749, BE882133, BF984505, BF983192, BG033275, BE537808, AU138496, BF978549, BF791293, AV758458, BF978970, BE897839, BE891773, BG028552, AV756779, BF348380, BE544852, BG180994, AU138423, BE783926, BE790149, AV647651, BG180514, BE886542, BF669771, AW950287, BG030964, AU133929, BF540824, BF672669, AI308837, BE882889, BF244654, BF666694, AV647698, BG169993, BF790368, AV723145, AV732863, AA122236, AV647695, AV715522, AV685920, BF028308, AV647569, BF105115, BE892120, BF695056, BF669431, BF436129, BE543091, AW363937, BF667030, AI740603, BE568179, AV715544, AI698125, AI678683, BE748490, AW299845, BG009598, AI766040, BF036918, AA911996, BF790701, AI740699, BF129905, BF695828, BE748787, BF694681, BE049332, BE501459, BF791119, BF242503, BF240540, AI566017, BE739216, AI862778, BF103607, BF383055, BF089920, BF383113, BF574696, AW439230, BF028165, AI992130, BF029869, BF214255, AA083269, BF692328,

					BF028909, BF028950, N31326, BF670821, BF211706, BF701480, BF670811, BE866031, AI917193, AI570519, BE568353, AI095016, BF130290, BF245935, AA731991, BE789179, BE018220, BE789659, AV706901, BE873916, AI784504, AU157111, AU157154, AA807683, BF214737, BE866674, AA521441, BF697291, AI097040, AA159802, AU155086, BF576547, BF001380, AA577000, BF576765, AI421580, BE042461, AA315644, BF241476, BG165631, AI954071, AI949499, BF001429, BG178240, AI088027, BF693411, BE866506, BF243338, BF238642, BF213391, BF693271, AI590159, BE564554, AI870962, AA291279, BF696346, AI683299, AA452797, BF691651, BF697614, BF574483, AI335173, BF574392, AI922454, BE878946, AA613953, BE301705, W46431, AI983758, BE138832, BF381737, BE568565, BF126639, N21374, BF793733, AV757543, BE175751, BF211165, BF693918, BF383115, BF575927, AA083228, AA626504, BE568752, BF993159, BF248184, AI274752, AV647219, AW514125, AI580851, AI302371, AV758280, W52465, AW339075, AW627843, AW589504, AA729798, AA165015, AI301712, BF923406, BG025081, AI095888, BF132421, BE865839, HI2391, AW193393, BG113656, AI750428, N35068, AW628469, BF381687, AA018858, AI537545, AI539228, AV647526, BE739676, BF244248, N43807, AI355889, BF219513, AW305167, AA248634, BF670216, BF208900, D58212, BF576833, BE567828, AV692522, AW316752, AV763220, AA249298, BF221484, BE247748, BF336472, BE567395, AV704009, BF336476, AC002543, U03851, U03269, U16741, M80589, and M25534.
HTXKC18	14	535854	1 - 864	15 - 878	AA547979, AI085242, BG029528, BF725761, BE162539, AI801505, AI358712, BF804385, AI369580, AL037714, AL079734, BE062478, AA483256, BF811714, BF681619, BF804359, BG180976, BE178231, AV760941, BE252421, AW021116, AI439372, AA594157, AV758870, AW819125, AL043351, BE062476, AA643770, AI583252, AI923052, BE178064, AI440117, AV760391, AL038606, AV741663, AA528503, AW855643, BE301584, AA528496, AW069227, AW969941, AW833865, AI380617, AA579419, AV760014, BF868994, AI612142, BF842771, AV760389, AI251576, AW023111, AL037683, AW827182, AL040038, AW237905, BE677029, AI491765, AL042373, AI499298, AI421755, AW020150, AI174876, AI821467, AA469327, AI612070, BF244530, AW855528, BE063437, AW779609, AI583466, AA812058, BF821009, AV763276, AV726091, BF821897, BG152386, AI611533, AI565084, AA832016, AA828047, AA857812, AI275982, AI610941, BE150580, AI299882, AV760915, AI301373, AA838091, AI457389, T74524, AL121655, AC005520, AC006312, AL356379, AC008569, AL024498, AC007546, AC020904, AC018758, AL158040, AC005911, AC024082, AL109804, AC007637, AC005940, AC004089, AP001435, AC011449, AL096840, AC005102, AC004867, AC021016, AL121586, AL034548, AC004967, AC005736, AC005480, AC008403, AC003684, AC009516, AC020916, U91321, AC005755, AL136137, AP000704, AL050318, AC005531, AF168787, AC002350, AC005387, AC005952, AC010271, AC007731, AC005412, AC020552, AC002312, AC008753, AL034379, AL121653, AC005197, AL157838, AC008551, AL138787, AC005971, AC004217, AC007597, AF045555, AC018720, AL355385, AC006597,

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HLDRK20	15	553765	1 - 1300	15 - 1314	AL531625, BE249834, BE249869, AU133584, AU133954, BE293561, AV692312, AW957051, BE293519, AU135103, AA399208, AW176043, AV690099, AI904273, T60502, BF374345, AV655442, AW804571, AW804603, T70509, AV688378, H47199, H93928, AV694565, AV694238, T68223, T68956, T68126, T68045, AA337893, T69698, AW804991, AW804996, T68924, AW372297, T72305, AV696946, AV696947, AI301941, AA344625, T71155, T72771, T56196, T73042, BF992875, AI133687, BE392020, AV693194, BF848482, AW104835, BF369544, T74806, AI363265, T68644, T60607, AA779168, T68483, T67851, AV647855, T73703, AI266591, AR034619, S67310, L15702, X72875, AX014918, AF019413, X00284, K01566, M15082, and M59240.
H2MBD33	16	558474	1 - 425	15 - 439	AW957931, AW957932, AA308306, AI633677, BE538201, BE044997, AW856247, BF061419, BE787771, AW874580, AA503529, AW117709, AI613324, AI561159, AI732205, AA133693, AA747898, AU160258, Z19706, AA405171, AU156212, BG231867, AI498698, AA579013, U88573, A75315, AC016816, X87344, AC000117, AC004506, AC004522, AC004899,

HSYBX61	17	558708	I - 1094	15 - 1108	AC005075, AC005919, AL122002, AC019172, AC004977, AC008444, AC005771, AL160237, AC004066, AC025614, U73642, AC006024, AL359833, AJ009614, AC010470, AL021939, AL138773, AC009037, AC016941, AC013246, AL445189, AC010458, AC027329, AL121950, Z83313, AL049648, AL109921, and AC007368. AI950214, AI074445, BG114649, BF666951, AV705261, AI050761, BF215604, BF700368, AW665220, BF247160, BE958106, BF668544, AW901579, AA863199, BG105211, AW901581, AA933061, BF691307, BF081566, AU153641, W48793, BE701906, AW901558, BF363888, W49619, AA757163, AI127140, BF363884, BE812771, AW901562, AA406401, AU127328, AU120201, AW901572, BE701904, AV694302, AW901560, AW951188, BE938964, W24640, BE701884, AL207705, AW360819, AL041311, AW360785, T29223, AI765920, BF382797, AA747483, AW136630, N83358, R38385, AW900970, BF970590, BF885816, AW899304, N87392, AA693316, N89144, AI675151, AW900934, BF529885, BE767210, AI754509, BE464612, BG167754, M34064, X53615, S42303, AB017695, AB008811, M31131, AF097593, X07277, S45013, X54315, S45011, AF177682, Z27439, Z27440, and Z27441.
HELHC03	18 -	562745	I - 1161	15 - 1175	BE262771, AI024014, H91016, H90904, AV695478, BE138594, AL036909, AI560085, AI537397, AI630283, AA744018, AV756491, AL038842, T74524, AW023302, AI888468, AI076236, AA181917, AA468022, AI678867, BE147833, AW965008, AC005048, AC005726, AC006050, AL139182, AL121893, AC005829, AL078591, U91323, Z84469, AL162615, AF196969, AC006337, AC011470, AL031777, AC005102, AL135901, Z93241, AC007934, AC005670, AC007263, AL353804, AC004895, AC004963, AL121891, AL050349, AC004906, AC000025, AC004983, AL117382, AC006011, AL034422, AP000563, AL354896, AL139099, AC008760, AB003151, AL157789, AC003070, AL049872, AC005412, AL162430, AC005859, AP000558, AP000065, AC011500, AL050332, AC011479, AC018738, AC005527, AL158141, AC009516, AP001711, AC005529, AL356354, AC007686, AC000379, AL109797, AL135744, AC002115, AC002546, AC005080, AC011455, AL008635, AL133417, Z95114, AC007785, AC004634, AP000501, AC007216, AC018751, AF053356, AC002312, Z97985, AC002550, AC005236, AL049795, AC010553, AL049780, AC005052, AL138807, AC005482, AF111168, AC005081, AC011442, AL445248, AC007055, AC036103, AC002425, AP000313, AL109743, AF088219, AC002091, AC010201, AC006552, AL133228, AC005840, AL137060, AC009399, AL050318, AC002301, AC007130, AL118520, AC006483, AP000133, AC010422, AL031575, AC011475, AC011523, AC007201, AC004916, AF109907, AF168787, AC006071, AL365212, AC004694, AC027319, AL133548, AC011495, Z94801, Z98884, AC002404, AC002395, AC008085, AP000194, AC004858, AL136298, AC018719, AL138893, AC011527, AC002369, AC011592, AL356750, AL389886, AC005409, AC008770, Z94056, AP000350, AL133153, AL132653, AC015651, AL031846, AL162424, AC083874, AC005755, AC004031, AC016831, AP001714, AC005015, AC007465, AP000555, AC008537, U91326, AC020947, AC020908,



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HOFMP70	19	585385	1 - 333	15 - 347	AU129119, AU132116, AU122873, BF985587, BE880467, AU134725, BF763276, AU127421, BF986272, BF752117, BF679945, AU131326, AU139214, AA314523, AA852641, AU129752, AA307371, BF696550, AU130590, AU118964, BG178180, AU131491, BF669193, AU136184, BF985661, BE410823, T68678, BF749656, AW239136, AA242999, BE620262, BF698331, AA375736, BE782468, BF965316, BF327652, BE876259, BE875957, BE796542, BE620043, BE389731, BE790649, T07406, BF570489, BE785080, BE745306, BF681401, AW579861, BF985601, AU128901, BE156508, AL036766, AU128389, AA375047, BF107335, BF985580, BG171811, T71831, BF985602, BF903411, T71811, AA362982, AV750113, AA092055, BE732006, BE731395, AU127766, BE156632, BE733317, BE273157, BF733809, AL044046, AW455795, BF107170, BF752590, AW363271, U01153, X15187, AK025459, X90848, Y09136, X76301, S74939, M26596, M33716, and AR032000.
HSKNZ25	20	585675	1 - 674	15 - 688	AI423388, AA705880, BF525904, AA349525, AA488891, AA836122, BF348027, AA465431, AI310146, AI302088, AA584447, AW968376, N46920, AI986100, BF753058, BE160619, AI077517, AL040766, AA890243, BE244498, AA325569, BE160856, AA771925, AA489237, AA126066, AV656598, AW372110, AW137313, AL039325, BF959941, AA046254, AW136539, BE072182, AA465360, AA917759, AW962078, AW816387, BE935535, AA573136, AW517075, BF903430, R45086, AW797195, AI368519, AA078308, AI022603, AI354688, BF761820, AI565643, AA810621, W87764, AW852367, BE149694, AV653343, BG010915, BF989770, BF762909, BF834278, BF897554, BF929290, AW861486, AI052645, AA280250, BF857730, BF857711, AW857610, AW857593, BE729724, AL118895, AW857604, AW938518, BE142184, BG105313, AA077547, AA577804, AA496279, BE089188, BE142866, BE142936, BE161095, AW888812, AW857605, AW945790, BF750582, BF813834, AI651771, BE089952, AW898784, AW845700, BE393138, AW902136, AW845696, BF953515, AL024458, AC005562, AC007204, AL031228, AL035246, AC012309, AC010632, AC003975, AC011460, AC007275, AC008821, AL445249, D28126, AC009489, AL122001, AC003682, AL121905, AC008537, AL136317, AL139277, AL022318, AC078899, AC002301, AL360088, AP000346, AC022137, AL033526, AC068948, AL133162, AL121985, AC006504, AC019173, AL132656, AC000397, Z95704, AC010328, AC008176, AC073898, AL161802, AL121932, AC006462, AL365505, AL031775, AP000431, AP001675, AC022148, AC008969, AC074331, AL035458, AL078614, AP001464, AC004976, AL109943, AC022596, AP000498, AL163202, AB026898, AL137070, AC008554, AL136419, AC010889, AC002049,

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HDPFK39	21	588869	1 - 736	15 - 750	BF892783, BF894772, BE243071, BF892143, BF892796, BF892140, BF899235, M18044, J03925, J04145, AF268593, S52159, S52157, S52153, S52154, S52152, S52161, I19138, M76724, S52155, M82856, and U59801.
HL1AB07	22	638220	1 - 870	15 - 884	AW410018, AI956068, AI140111, BE902158, BE410544, BE559955, AW009487, AW006443, BF237868, AV714206, AI301924, AI494409, AV717288, BG256432, BF976795, BG166509, AW080966, BE619019, W52136, AV709106, BE619682, AI189286, BE566002, AW084868, AI687212, AV711092, BF697110, BE567660, BE409695, AV710866, AI801202, AI032877, AW410017, BE568300, AI262521, BE963864, AI523891, AI184261, AV691952, BE091071, AV746007, AI566878, AA151257, AI144492, AA826477, AW083498, BE787965, BF851971, BE535774, AW410030, AI399980, N36966, BF435067, AI809283, AI018420, BF967855, AI819520, W30822, AI128356, AI025970, BE672642, BF081971, BF081981, AI880707, AA127920, AW779049, BF676071, AI206487, AW471111, AW028734, AV762883, AI150971, BF881900, AA889268, AA887476, BF858077, N36122, AI190417, AI127953, BF696643, AA843205, N38925, AI566572, AI066676, BE931182, AI990970, BE879114, BF028182, W37751, AA730086, H48432, C18042, AA142846, AI139565, AI688339, AA679046, AA588794, AA127971, AV716260, AA001534, AA719696, AI074105, AA642642, N42965, AV762116, AI375763, N47999, W67531, AV723563, AI627627, AA494298, AA973740,

					<p>AI016758, BF081942, AA151258, BE905596, AI225090, BE875848, W02508, H46679, C04154, T60074, BF678014, BG106733, H41469, BE270088, N69681, AA844464, AA430561, AA583307, AA461150, AV762407, AA127062, D19615, AI752939, R81805, AA025474, AI066496, W37750, H41039, AV745238, AI924481, AI924470, BE004170, AI344530, AW880670, H72482, AA018348, AA514449, BF475775, AA125939, H29277, AI004753, AI355113, AA844121, BF892448, BE825656, T35178, H22508, R81909, W31172, AA976620, F35745, H65927, H22469, AA917898, H18879, H20360, AA354526, AA460845, AA610792, AA844581, AI984747, AA532788, R89209, AA694042, H18878, R50840, N30666, AA834054, W67532, R89101, H58424, AA650593, AA018347, R82743, AW572104, AA055147, AA301393, BE463668, AI024508, AV683793, AI630440, H42928, AA343997, AV690683, N32244, AV689469, AA890629, AA433978, H46678, BF222315, BE866553, AW888410, AV685213, W25676, BE091036, AA084018, AA337082, AW088862, AA112174, R34238, T85674, H40286, BE568860, T34863, N94289, AV705344, H20171, W02840, AW380085, AW380101, AW948839, AW380091, AA353222, AI184040, T55401, H58425, AW380097, N51206, BF056703, AA650550, T55474, AV738416, H72883, AA054937, AA704634, R35565, AI198351, BF842567, AW885411, AA464336, BF967553, N46497, R32185, F24158, R32236, BE925396, AI612942, W92351, AX015062, AF161504, AF151884, AC007237, and AX014860.</p>
HHGAS83	23	654868	1 - 833	15 - 847	<p>AL533363, AW156912, AI816293, BG178409, AL533268, BE780411, AW157766, AI798138, AI963352, AI928783, AW262125, BE791202, AV759165, AI674833, AI039883, AW162562, BG178768, BE877936, AV722302, BF571229, BF339857, AI830091, BF126571, BF674685, AI986467, AW148939, BF345205, AV711322, BG236045, AW272546, BE872856, AV723940, BG163828, BF967950, BE745145, AA572799, BE899054, BE615020, AW161689, BF529506, AI206529, W93860, AL533542, BE799051, BG232073, AI200704, BF973309, BF679748, BF974878, AI199823, AI817392, BF184997, BF967861, AV710824, BF338381, N25541, AA669821, AV702224, BF528571, BF530905, AA593762, AW157587, AW157474, AA128267, BF974287, AV711487, AW029137, AA577607, AV707789, AA864492, AV733623, AI077676, AA576598, AA575898, AA708990, AA843178, AI338574, BF239951, BF820971, AI832599, AI139644, BE273067, AI745646, AI340072, BF210950, BE165278, BF206608, BE614815, BE165293, BE165267, BF700461, BF821744, AI276918, BE165274, BE165284, BE874868, AI630859, BE165285, BE165295, BE165281, BE165287, BE165289, BE165094, BE165276, BE165272, BE165273, BE165275, BE165110, BE165296, BE165286, BE165277, BE165157, BE165165, BE165084, BE165294, BE165290, BE165087, BE165271, BE165077, BE165089, AV734637, BF351286, BE165095, BF772629, BE165270, BF339501, BE165078, BE844143, BE165088, BE165099, AA814150, BE122846, BF967319, BE810478, BF342269, AW386221, BE165090, BE279632, BE165085, BF351288, BE165116, BE165091, BE165098, AI139451, AI673724, N34138, BE165092, AA970318, AA506290, W67498,</p>

HTSGU37 H2LAN34	24	704405	1 - 502	15 - 516	<p>BF770073, BF216394, BF680640, BE793193, BE165292, BE938895, BF924501, AV733983, BE763913, H42152, BF820364, AI923629, W90644, AW953889, H43136, AW953838, AI523448, AA029738, AA034262, BF737798, BF346328, BF821748, AA507762, BE973916, BF351295, H01957, N21386, AI191285, AI085683, AA480834, BE165106, BF772626, AI660175, H42506, BG230993, BF351292, AV742697, BF665930, AI754274, AI907958, BF820365, BF674337, BE165101, AA029498, AA740348, BE785360, AA506938, AA457725, AW005610, N20640, H26094, H42476, AA010689, AA039989, N36838, AI167980, AV755945, BF448586, BF815571, BF675649, AA642726, AA455488, W74383, BE165269, BE165280, AI754434, BF967367, AW938715, BF739156, BG164837, F32477, AW511436, R99698, BG171345, AV744421, R79563, AA129366, T34865, AI753955, N36170, W27617, AA845291, BF772634, AV729590, AV725066, BE122839, BF737242, H25701, W79200, AA629624, R99713, BF375128, AA126699, AI866674, BF698421, AA551974, BF574054, BE122838, BF737793, BF351314, AC003688, AF067171, AF183425, AF044671, AF161586, AL050182, AJ297742, AF161587, AF161588, and U65413.</p>
	25	705692	1 - 530	15 - 544	

					<p>AW966030, AW960454, C14014, T03269, AW178893, AW752082, AV700229, D51060, C75259, AV720654, AW973465, AW965176, AV742001, AV742667, AV701125, AV701335, AV701166, AV742430, AC012627, AC008554, AC011477, AC007204, AC024563, AC008626, A62300, AX033851, A62298, A84916, AX027925, AJ132110, AR070327, AR018138, AX047063, AX047064, X67155, AX021518, A25909, Y17188, D26022, AX035434, AX020191, A67220, D89785, A78862, D34614, AJ302649, AX020190, AF058696, AX047062, D88547, AR008278, X82626, AR077702, AB028859, AX028130, AR025207, AR087649, A1294956, Y12724, AF260572, AR074545, AB012117, X68127, AX015396, A82595, A94995, A1287395, AR088705, AB002449, A85396, AR074141, AR066482, AR060385, A44171, AX042372, A85477, AR008443, I19525, A86792, X93549, I50126, I50132, I50128, I50133, AR066488, AR016514, AR060138, A45456, A26615, AR052274, AR054175, AR074139, AR066490, Y09669, A43192, A43190, AR038669, AR066487, AR074136, I18367, A30438, D88507, I14842, D50010, Y17187, AF135125, AR008277, AR008281, A63261, AX035429, AX035428, AX035426, X64588, AR008408, AR091537, AR062872, A70867, AR093385, AR016691, AR016690, U46128, D13509, AB033111, A64136, A68321, AR060133, AR087528, I79511, AR071754, AR064240, AB037923, U87247, AB023656, U79457, AF123263, AR032065, Z82022, A63887, X93535, and AR008382.</p>
HPMBZ40	26	711500	1 - 882	15 - 896	<p>AW104075, AA322168, AA318382, AW582134, AA559937, AA635043, AA309573, AA664669, A1890563, AA747333, AA083698, A1002831, F31565, AA327808, AA640478, AA307971, AA101115, BF438598, AV656583, T41261, AA962042, BE147478, AA614771, AA548695, AA179423, AA657363, AV709285, A1708675, BG121326, AJ350430, AW393836, AW393837, AA083697, AA171770, AW393902, T59870, F21378, AA679905, AA515952, F20900, AA828709, AA179773, AA230071, AA327627, T58575, AA669666, AA340945, T73373, AA805827, AA328641, AA729868, F31199, AA729864, AW378613, AA182721, AA130896, AA364450, AA229102, AA299112, W32976, F29405, AA888657, AA328937, AA079176, AA383431, F33309, AA363495, AA328075, AW361074, AW059576, D11891, D51386, AA502814, AA507714, AA299168, AW582136, D11796, F17656, AW378614, BE747323, BF437529, AA746958, D55360, AA484708, AA767968, AA627228, AA507186, A1708996, AA082512, D52903, A1302193, D53594, AA329939, AA341403, AA827269, AA172100, T53280, AA748072, BF906802, A1302449, T53153, AA304439, AA341417, AA962113, AA522638, AA604015, T63562, AA484205, AA593695, N68907, T94322, AA501477, AA181035, AA181548, AA847052, AA583572, D12365, AA180490, AA507806, A1628828, AA630793, AU122870, AW276534, AW304926, AA622673, AA225033, AW270722, AW104696, AA578036, AA053440, AA773121, AA128815, A1679291, AW085649, AA621862, AW058229, AA736894, AA480608, AA665010, A1884565, AA321126, N31278, AA187890, AA244150, AA747111, AA191223, AW270043, AA593407, T50429, W52460, AA132470, D53323, AA328902, AA159715, D54432, W68495, AA167322,</p>

					<p>AI095409, AA084375, AA658827, AI358166, AI708254, AA187504, AA482748, AW780036, AA583520, AA157332, AA314043, BF197836, D50983, AA970585, AA143227, AA911880, AA927974, AA976810, AA977150, AA102191, AI798525, AA078950, AA102849, AA180190, AA224984, AI357051, AW873238, AA569578, BG223220, AI439429, AA029991, AI719781, AW089073, D53734, AI366916, AA310543, AA486614, W68360, AA665092, AW327769, AA100956, AA165275, AA804683, BF244443, AI301557, AA078973, AA315728, AW628061, AA657647, AA159647, D54122, AI857391, T57651, AA334959, AI676012, AW262217, AI523425, AI819822, D11511, AI708369, AA010340, AI300845, AA040455, AI338636, AI660588, AW069480, AA528259, AI707739, N22482, AI027315, AW006070, AA316160, AA187988, N75284, BE613193, AW327699, AA244151, BE645512, AA583926, BG026258, AA627191, AA954121, AA081362, AA182780, AW245982, BG230817, AI074945, AI080574, BG142239, AI719383, AA583480, T59580, N95296, AB007163, AR083348, A62479, M10939, X63237, S79522, AI136454, AC005291, A62478, AF058700, D83209, X81839, AC026473, U67931, M26882, AL357519, AL031664, AC010083, AL391114, AC007685, AC018764, AC004898, and AA180500.</p>
HLYPE52	27	732342	1 - 998	15 - 1012	<p>BF971932, BF237781, AW338866, AI963716, AA573832, AA987495, AW058614, AA128438, H51921, BF732971, H27808, H94212, AA993608, AI159855, BE872759, AI469694, AI828778, W69653, AW873554, AI688311, N77573, BE898545, AW601461, AI741570, BF831400, AA160897, H49117, AI348273, H27183, AA158489, H44990, H92982, BE884960, AV709626, AA159945, BF873908, AI795832, AI795829, BE140739, AI816555, AA846337, H28378, BF810845, BF813075, AI816592, BE140751, BE140728, W69654, AI984845, AI961817, F15634, AW954779, R72015, AX011711, AF035771, AR070449, Z50150, AF004900, U82108, AC005600, AB016243, AB014460, AB026489, AB026490, AP001038, AP001732, and AP001039.</p>
HTTEC47	28	745343	1 - 1010	15 - 1024	<p>AU131337, AL133785, AU117996, AI798884, AU116829, AW847640, BE142866, AW836282, AU120388, AU121070, AV707591, BG170577, BF673669, BF345679, AW833146, AU137603, AW833143, AV649129, AA683309, AW976291, AU139654, BE144683, AI114469, BE062166, BE144698, AW836280, AW902129, BG109731, AW813625, BE157028, BE158876, BF513132, AV731068, AV731522, AW833033, AV731034, BF746208, BF770900, AW833187, AW854788, AW832969, BF800480, BF929942, AU122701, BF675777, AW813623, AW820037, BF830719, AW819804, AW819805, AW936057, AW819798, AW835724, BE066033, BF244129, AV731276, BF748007, AU119706, BE009738, AW833622, BE066010, BF853047, AW820049, BF675045, AW820116, AW835725, BE066035, BF808065, BF997232, AV712125, AI246137, BG164408, AW819881, AW820040, AW820126, BF944744, AW819806, AW845700, AW877560, AW835642, AW853349, BF754324, BE780891, AW845696, AL045241, AL046683, BF964660, AW820052, AW833180, AW817951, AW819969, BE062378, BG104752, BF756986, AW820114,</p>

					AW819799, AW820115, AC022596, AL008633, AL359763, AL096803, AC020717, AL138702, AC024092, AC060232, AL161730, Z82211, AL022577, AL035464, AL035090, AL137251, AL133406, AL356022, AL033530, AL355390, AL121938, AC007179, Z82205, AL139395, AL049844, AL390023, AC024247, AC010175, M22334, AL080284, AL157360, AF064862, AF003535, AL034403, Z82899, AC008604, AL161804, AC048346, AC012082, AC002429, AC006479, AL030996, AK021593, AL133417, U65397, AL022144, AC004103, AC007090, AC013410, AL445143, AK024101, AL163281, AC008518, AC002072, AC010235, Z82212, AF126403, U93574, AC016751, AL135918, AC023481, AL158206, AL031054, AC022335, AL139229, AC007159, AL049562, U93572, AC003106, AL445196, AC004531, AL132821, AL135936, AC003990, Z73965, AL390022, Z81009, AC004954, AC007253, AC003091, AL033524, AL121933, AF196972, AL034427, U93563, AC005609, AC004673, AC012442, U93571, U93573, AF149422, AC004917, AC007785, AC068069, AC005993, AP001690, AL136307, AL049629, AC005739, Z81145, AL021069, AC020550, AL096862, Z79699, AC006079, AL356962, L81652, AP001671, AL133500, U93569, U93566, U93565, AC078918, AL035258, AC008456, U09116, AL117191, AF248484, AC006070, AC015971, AC016623, AC003083, AC007204, AC007214, AC005686, AC008716, AL133249, AC005384, AC007558, AL109800, M22333, AC004029, AL161905, AC007000, AL109656, AC005823, AL359846, Z95400, AF148856, U93570, U93568, AC017089, L19092, L19088, M80340, AL121825, AC003085, AC022542, AC009262, AC004748, AL121868, Z82195, AC006383, AC008394, AC008178, AC002564, AL365276, AL035397, AC002523, AF064865, AL365508, AL136442, AC012472, AL445439, AC020647, AF127577, AC006559, U69729, AC007400, AC006287, AL020992, AL353587, AC004063, AL139109, AF110324, AC005230, AC008561, AC004058, AC024094, AC007488, AL136970, Z98751, AF149774, AL031665, AL365475, U93564, M80343, AL161659, AF036235, AC009319, AC022224, AL121755, AL445306, AL031115, AL353140, AL135879, AL121790, AL357153, AL121591, AC005994, AC008550, AC078845, AC019212, AL008987, AF172277, AL133370, AL121943, AC005024, AC010461, AJ010598, AC006992, AC005915, M19503, AP002534, AF225898, AL033538, AL390035, AC004389, AL163207, AL109845, AC008436, AL359755, AL049555, AL121757, AC003098, AL049796, AC019050, AL109805, AL357507, AL136441, AL445192, AL049563, AL049828, AL109620, U93562, AC010176, AL136296, AC026888, AL050329, AP000347, AL139192, AL121900, AL163278, AC005201, and AL354777.
			1 - 428	15 - 442	AI929681, AW592729, AA648798, BG259038, AW250255, AW245532, AW651722, AW573263, AW250589, AI015535, BF031458, BF764886, AU124917, BF794818, AU125620, AU141564, AU142862, BF763514, AU125790, AU143619, AU120837, BE886545, AU125751, AI220039, BE258310, BE925039, BG005263, BF739929, AA024938, BE895457, BE383414, AA467947, BE276994, BF986402, AU125668, AA250731, BG251310, AU131885, BF219963, BF027149, T36005, BF218581, BE797690, AA211028, BE891460, BE885888, BF026383,
HOFMO90	29	746416			

					<p>AU143011, BG252532, AL536067, AL538416, AL518012, AA471174, BE727048, BE792076, BG121144, BF979650, W40299, BG026681, BE299425, AV749633, BE547012, BE902225, BF025777, AL040485, BF303752, BG169183, RI7987, AL532385, BE538688, AL518448, AA471318, BE798701, BF307303, AA313413, BF306715, AA074578, BE122769, BF206640, Z41942, BE244339, AA181660, BF205625, AA196912, T35534, N56034, T74205, BE269688, BF304135, AA258411, BE385651, AA092564, BE156028, AF046001, AC005899, AB032196, and AB013357.</p>
HCHND34	30	762806	1 - 816	15 - 830	<p>AL538129, AL525022, BE872112, AI111183, AI114736, BE896548, BE877234, AI174851, AV705883, BE875361, BE881218, BE881076, BE880128, BE879304, AV706307, BE875412, BE874647, BE879135, BE877386, BE877647, AV729201, BE898937, BE881222, BE876531, BE875889, AV726346, BE878894, BE875858, BE876704, BE874520, AI133323, AI133348, AL513828, BE880711, AV728251, BE879909, BE876043, BE878122, BE877496, BE876719, BE874662, BE877268, AV706779, BE878178, BE879695, BE876425, AV729465, BE873343, BE891387, BE867307, BE877150, BE877004, BE874747, BE875792, BE877390, BE880762, BE898750, BE870155, BE877131, AV729314, AI750078, BE876651, BE877390, BE880762, BE898750, BE873954, BE874215, BE877497, BE874926, AV693283, AV725309, BE877757, AV705995, AL048390, BE873478, AV725316, BE880690, BE878213, BE879455, BE892487, BE874003, BE876550, BE897096, BE898560, BE877488, BE880425, AV702923, BE875968, BE891700, BE874696, BE877643, BE879522, AI749163, BE876062, BE870577, BE897811, BE876098, BE877242, AV710316, AI065146, BE868548, BE896982, BE899424, BE880602, BE876884, BE868527, BE879775, BE869133, BE874445, BE875601, BE868532, BE874422, AI114553, BE878330, AI110700, AL036120, BE875438, BE869149, BE879302, BE877542, BE898986, AV726493, BE879410, AV706277, AV760899, AI114569, BE876037, AV721544, BE880237, BE876785, BE879859, AI133444, AV726351, BE879895, BE867317, BE878477, AV709557, BE877726, BE878238, BE880722, BE898371, BE880140, BE875261, BE877598, BE875955, AI133486, AA639334, AV706033, BE878677, AV708006, BE875918, BE878422, BE881146, BE868603, BE881693, BE877813, BE896992, BE895621, AV702580, AV714977, BE879413, BE877674, AI174902, BE879761, AV709615, BE875062, AV723290, BE881506, BE880977, BE875398, AV705696, BE543600, BE894635, BE880958, BE880950, AV723029, AV583759, AI114723, BE878900, BE878010, BE880947, AV721627, AA723026, BE868786, BE874402, AV707010, AI721239, BE875536, AV723395, AV702695, BE881638, BE879688, BE878173, AV659215, AV708355, BE880276, BE877271, BE876568, AI833114, AV721920, BE881057, AI110881, BE880427, AI207615, BE880442, BE875310, AI110734, AV759353, BE881359, AI114585, AV708529, BE878468, AV721831, AI609232, BG179400, AV722162, BE881594, AV722611, AV702323, BE878381, BE881411, BE878333, AI720161, BE895091, AI114699, AV706568, AV726110, BE880705, AV700257, AI733732, AW583569, AI133302, BE877616, BE894655, AI110877, AV721391, BE880758, AV706979, AV705894, BE878086, BE877479,</p>



					BE879580, AV721794, BE873841, BE868332, BE875382, AV724988, AI133691, BE874084, BE894924, AV727742, AR083056, I27367, X54629, AX039612, X62996, V00662, X93334, L08441, D38112, D38116, AL359334, X93335, D38113, X93347, D38114, X97707, AF134583, AF175976, U35430, Y10129, X84075, AX026544, AF004341, AF175985, AF144745, AB005535, AC007282, Z79403, Z79419, Z79459, AJ252237, and I07623.
HAMGI86	31	785328	1 - 653	15 - 667	AL520509, BE407109, BE312514, AW294706, N23047, N28711, N23224, AW517021, AA039977, AA287636, AA286793, AW136370, AI362850, AA382819, BF684630, AW409954, AA312796, AI565859, AA312800, BF795529, AA382325, BF211504, BF184364, BF102863, BG106081, BF220088, BE279764, BE902929, BF239561, AI240475, AA229436, BE162216, AW590207, AW673504, BE538140, AA324312, U35117, U75488, A67520, U18422, S79780, L40386, AL080206, and A67526.
HLWCN67	32	794213	1 - 677	15 - 691	AW978308, AA369775, N53897, AA807270, W95818, W95857, BF724803, AI125532, BG117266, BF968973, AU128956, U69567, BF102704, BF965471, BE770768, AV758189, BF111890, AW274041, N55318, D45459, AA301769, AA434064, BF002861, C04552, BG001662, AI569610, AA610288, AW580433, AK002172, AF090904, AB020703, AX029226, U95000, AX029228, and X64411.
HOFAC09	33	806819	1 - 854	15 - 868	BE739621, BE379183, BE617530, BG108163, BE619662, BE748774, BF570337, BE305001, BG249872, BF569120, BE612784, BE619823, BE271125, BE619946, BE617896, BE271060, BE300237, BE617937, BF966616, BE738551, BF340609, BF688981, BG257657, AV713811, BF974766, BE293496, AV717562, BE293387, BF689303, BF220284, BE748652, BE619923, AA642201, BF688590, AI174682, BE279777, AV715664, AA641148, BE299551, AV652787, AI174681, BF683366, BE747352, AA857839, BE872623, AV718269, AA640951, BG105683, BE778293, BE393602, BE546109, BE250635, BF982878, BE531162, BF570115, BG178614, BG179165, BG163531, BE531088, AV717782, BE613177, BE902527, BE271042, AL514500, AA858434, BE738219, AA837571, AV685977, AV756374, BG034916, BE740524, BE262924, BE378440, BF984231, BG029312, BE388222, AV684312, BE748508, BG256740, AV702438, BF237938, BE408065, AI817627, BG163462, AW001149, BE622882, AU128631, BG180980, AV688195, BE260549, BG255882, AI708325, AV684830, BE881395, BE788254, BE787490, BE249917, BE909118, BE305209, BE735960, BE397738, BF982126, BG256362, BF686276, BF237724, BE559874, BE266498, BF059086, BE251388, AA632140, BE787304, BE300231, BE293776, BE547987, BE439558, BG250330, AA642980, AV698344, AV715876, BE794978, BF125097, BE793931, BG256096, AV685452, BE388457, AA857476, AW149599, BE889684, BE617898, AV714051, AV688156, AV684821, BE619643, AV717638, AV717113, BE737518, BE545839, BF965676, BE748476, BE250538, BG029641, AV645505, BE736394, BF983033, BG027429, BE745157, BG180061, BG113341, BE512833, BG168282, BF696011, BG118147, BE394485, AV716748, BE728375, AI749591, BF340890, AW001147, BF184101, BE250051, AA551057, BE903863, BG114266, BE305190, AV709267, BE293782, BE549134, AV714025,

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HRDEL61	34	824886	1 - 810	15 - 824	AI696793, AW162288, AV703259, BF821897, AI358089, FI3749, AW819125, AV726885, AI963720, AV701116, AA071334, AW419262, AI821881, AI821918, AW504224, AL046409, AI745151, AA654781, BF750422, AA579179, BF821009, AI284640, BE301111, AI431434, AW410402, AA533033, AI076236, BF529327, AL120343, AW979204, AW406755, BF767028, AW753399, AA715814, AI358229, AI079645, AL037910, AA659627, BF668217, AW518220, BE138594, AL046746, AA410788, AW500684, AW021116, AW500029, AI755214, AI754105, AA581903, BE062729, AV764259, AI754567, AI613280, AW504686, AW858127, AI537538, AI623764, BG236628, AW872676, AI431303, RS9567, AW504297, BE676915, AV740009, AV710482, AW673221, AI732151, AW575165, BG000961, AI133164, AW576251, AV761519, AI821714, AI792133, AI791913, AW970877, AW975049, AW157005, AA563770, AW276827, AW964231, AI733856, BF916934, BF589066, AI623423, BF678990, AL118991, BF677892, AA657835, AI620585, AI610920, BE049229, AI049676, AV735495, AA610491, AI281881, AW023111, BF805088, AI783911, AV761745, AI270117, AI636627, BG036665, AI821785, N23260, AW089589, AI457397, AI028510, AA878149, AW501806, AA130647, AA603323, AI054333, AV710066, AV742057, BF915247, AI963221, AV763583, AV761810, AW271917, AW833862, AW089322, AI017251, AI251034, BE300580, BF942454, AL134330, AW193265, BE139139, AW081194, AW499745, AI732764, AC002350, Z85986, AL136984, AL035701, AP000557, AI157877, U85195, AF047825, AC004983, AE000658, AC007957, L77570, AC004536, AC005899, AC007850, AC007537, AL136443, AC011449, AL137070, AL139039, AL133551, AC004985, AL121871, AL031053, AC005522, AL078614, AC023490, AC010463, AC008924, AL035071, AC008821, AC016655, AC007620, AL136097, AC008123, AC025588, AL354696, AC005086, AL137139, AJ239027, AL138828, AC008745, AC016898, AC055740, AC006057, AC004804, Z72521, AC006368, AC011464, AL133163, AL136317, AC004253, AL080285, AC011510, AL136296, AC010977, AC020910, AC010419, AL109804, AP000311, AC010087, X62357, AC018755, AL445195, AC006285, AL365505, AL357560,

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HPRTS71	36	828574	1 - 1032	15 - 1046	AW118056, AI800662, AI589171, BF591232, AI188335, AW082251, AI818095, AW021236, AW591559, AA648866, AW246660, BG230460, AW452998, AI083735, AW835356, AI167977, AW468639, BG109889, AI470164, AV651830, AI334390, BE673379, AA741201, AL523450, BE070373, BE070459, AA643779, BE070441, BE548231, BE696414, AI248596, AW062368, BF055036, BF111561, AA614258, AL037459, T92093, AI420092, BF741961, N79460, AW393612, T92929, AA649698, AA716590, T93045, T29513, N98655, BF089688, T98007, R28667, AW974688, AI470059, BG179958, AI520746, T92007, AW514438, AI565207, AI252942, AI014682, AI276530, AA707158, AW580299, AA847513, BF803888, AI224129, AV747633, AA452013, AF305057, D00596, X89602, and X67098.
HOHB190	37	828862	1 - 405	15 - 419	AA021223, BE548133, AL045143, I15526, I15525, M76125, AC011510, X57019, X59560, X63535, and X66030.
HOHAL47	38	828872	1 - 907	15 - 921	AU132881, BF220328, R87908, BE613810, AW250257, AA931266, AW015928, BF095373, BF090602, BF095352, AW502696, BF796996, AA370819, AW502753, BE327008, N49168, AI800258, AI738786, AI651019, BF431451, BF891293, AI341119, BE464154, R87900, R87888, BF761409, BF761414, BF761411, BE672137, BF766414, BF761395, BE551754, AB020866, L27841, and AB029291.
HYASE58	39	829298	1 - 820	15 - 834	AL520115, AL520114, BG249568, BE858532, AI719186, AL524961, AA978354, AI963126, AW168149, AI016474, BE464809, BE541556, AW274265, AA126722, AA948354, N95214, AA779559, AI143841, AA988766, BF109578, AI052155, AI057145, AA868690, AI123988, AA862955, AA531469, AA565025, AI040746, BE315358, W58681, AA883150, AW973071, P27739, AW469738, W25247, AA677158, AA136191, R72558, AA137218, BE774145, BG163522, AW804292, T85571, R06411, BE559994, AI369527, R06410, BE931292, W58682, T85572, BF984740, AI202246, BE771601, AW204406, T98604, T98605, AA126819, BF804866, M29971, E02953, X54228, M60761, M31767, M84524, S61804, M76704, X54862, X65081, AL355531, S52068, S52071, S52289, AR040785, and X61657.
HKAAH95	40	829958	1 - 569	15 - 583	BF968527, BF972443, BE888293, BF245922, AI432365, BF984449, AI376939, AW959079, BF111350, AI809862, AW967166, AI708626, AA743821, BE274422, AA316016, W31195,

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HTTIQ02	41	829981	1 - 440	15 - 454	AU133091, AU142098, AU141602, AU134034, AU135799, AU141415, AU136549, AU141554, AL520149, AU141624, BF309998, N44941, AA165467, BG164969, BF305751, AA370928, AI025054, BE544595, BE297897, BF203543, AL047272, AA490707, AW998147, AW998144, BE719597, AV650018, L19871, U19118, and M63282.
HWACG91	42	830195	1 - 647	15 - 661	BG033793, BG255945, BG259666, BE730050, BE794184, BE280411, BE262457, BE407137, BF974510, BG260129, BE387574, BE250058, BE729393, BE900244, BE280432, BF317365, BF975884, BG255124, BE384164, BE875157, BE275535, BF697620, BE249873, BE729424, BG104941, BF528476, BG178885, BE389393, BE742299, AA160739, BE279276, BE730823, BE730234, BF696116, AI905415, BG169584, BG248765, BE409699, BE409459, BE383471, BE279295, BE514728, AI693883, AI906409, BE733527, AA133328, BE734917, BE747004, BE778282, BG120073, BG116573, AI906399, BG252353, BG250627, BG115053, BF205427, AA932527, BF974800, BF976607, BE275617, BE747869, BE258222, BE899354, BF667612, BE732117, BE394529, BE019949, BE255854, BF663000, BG115598, BE270894, BE877328, BE894791, BE742367, BF981923, BG025205, BE270877, BE313842, BE277239, AW246075, BE731739, BF689778, BE266619, BG122027, BE275677, AW327437, BE958080, BE293564, BE741359, BE279606, BE262807, BE731616, BE278518, BE797742, BE280931, AI906381, BE259001, BE620197, BF342810, BE278592, BE269494, BG033349, BE799713, BE252649, BE790350, AA069850, BE744820, BE731628, BE958554, W28216, BE269344, AW246351, BF665331, BE409170, BF346422, BG025476, BE892710, BE251197, BE729414, BE395317, BE747019, BE379494, BE535406, BF980658, BF309487, BE910196, BE795220, BG260707, BG255740, BF310723, BE265360, BE297749, BF311424, BE409537, BG165401, AA186725, BG034975, BF310637, BE744823, BF339822, BE883169, AW675050, BE884838, BE275911, BE394260, AI905506, BE736798, AA131028, BE296169, BE385509, BE735183, BE273644, AA160637, AA157966, BF796949, BG171791, BF103552, BE278910, BE735411, BG260083, BE895233, BF206952, BE264220, BG255060, AA313667, AA076309, BF149164, BF797136,

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HUFBX52	43	830497	1 - 1969	15 - 1983	<p>AL513910, BF338363, AI799888, BE392997, AW316671, BE044614, AL042665, AA114835, BE394176, BE857118, AA114976, W51953, AV702013, AI972232, BG025156, BE673213, W52502, AW205785, AW137401, BF879476, AI498690, BE504635, AI870560, F33285, AI696138, BF847455, BF847461, H42144, AW797536, AW580466, AI383137, BE504647, BF194734, AW291200, AI567040, T58430, AV707626, AV705123, AV702887, AV705196, T58462, BG104539, T29553, AV705977, AI972231, AI951152, AA593693, AW873877, T47089, AA393219, AA036671, N77388, AV706493, BF093800, AI686156, AV703987, AA575857, AW959494, AV702830, AV701517, H42145, R00971, T47088, AA063592, D11534, R00972, BF826969, BF345006, BF766206, BE840120, BF378651, N52428, AV707224, C01052, U24488, M25813, X73959, Y11915, X87243, AL049547, AF077974, S38953, U89337, AF019413, X71937, L26263, AB010266, AC006289, AF030001, AF049850, AB015623, M83939, U24489, AF086641, M12792, M12793, M17252, M26856, M28548, M26857, M13936, M13935, M11267, M12918, M64933, AB039881, U56853, U56854, K03234, M92836, and M15009.</p>
HWLJE49	44	831453	1 - 510	15 - 524	<p>BG251415, BG027650, AV716313, BE744852, BG168126, BE875004, AV712837, BE563257, BF183014, BG113939, AV701796, BG260019, BF244649, BF974779, BE740291, BG114363, BG035325, BG027799, BG169309, AV722365, AV712753, AI887549, BG027575, AI076353, BF725392, BG167147, BF663267, BG059083, BE300764, BE742593, AA806402, AI682046, BG027579, BG255168, BE906641, AI188649, BF967533, BE513190, BF182834, BG180632, BG113207, AI144531, AI149488, BF345318, BE675790, BG026111, AL048205, BE207355, AW277103, AI612881, AI761676, AI299022, AI270732, AA308274, BF575148, BE379881, AW005575, BE675232, BE729684, AI302970, BF684952, BE259873, AI748792, AI832372, AI342462, BG255930, BE728928, AW304345, AI917533, BE388883, AA308142, AI270352, AA315030, AA314014, AI720893, BE208370, AA181838, AI370898, AA314940, AI735477, AA316359, BE909454, AA582161, AA313264, AV705734, AA316330, AW338556.</p>

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HLQBT44	45	832454	1 - 735	15 - 749	AA745837, AI554448, AI830118, AA928341, AA669073, AA630270, AW304776, AI418823, AA630539, AA614639, AA701987, AA507015, AA775672, AA577574, AA947337, AA425865, AA740316, AI925815, AA872373, AA481869, AI287247, AW170694, AA058866, AI141303, AI686727, AA482053, AA456568, AI984134, AA481821, AI251811, AA779177, AA496675, AA938571, AA894451, AI052452, N63977, AA524693, T57094, AI357992, BF594112, AA523604, AI288847, R92183, AI539613, AW194037, AI689207, AA455766, AW129939, AA410742, AI278744, AW805186, BG011966, AW071224, T68990, AA425994, T71879, TS8711, AA775671, BG010690, AA235744, H93778, AI631122, AA668735, BF447423, AI933935, AA034382, AW801283, AW801602, AA627657, AA057664, AA551804, AI918451, T71878, T50658, AV692045, AA034383, T72829, C21135, AW515583, AI114853, AI245066, T72828, BF941121, N80768, BG010676, AI141304, AW393623, AA477973, AI803211, BG013596, AI494106, T25929, AW004686, AI500081, BF908767, AW842027, BF909560, BF868853, BF908693, BF909563, BF911325, BF868849, BF908765, BF801119, BF848926, AW243946, BE173882, AW878618, BE001388, BE079012, BF890845, BE073329, BF942940, BF990699, AA400639, AW843089, AW833203, BE166207, AI708714, BE676937, BE085445, AA810087, BF908691, AI039389, BE737951, BF908768, BF911435, BF909425, BF810304, BF909434, BF909438, BF733544, BF848896, AA577947, BF845946, AA559987, BE079182, BF896106, BE079011, AW898529, BF926033, BF874446, BF874408, BF987376, AA577987, AW884119, BF868852, BE146291, AA578162, BG002961, AW176716, BE001389, BF909558, BF908760, AA559135, BF875608, AA558407, BF943834, BF943838, AA504031, BG002880, AW797672, AW014901, BF875343, BF807164, BF934749, BE094775, BE072043, BF905359, AW898530, BF943835, BF878034, AW840660, BF990659, BG002963, BG002966, AW875187, BF762630, BE083383, AW878617, BE085444, BE828029, BE077159, BE075548, BG002874, BF990679, BG002969, BE079010, BF846180, BE094456,

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HSLGG58	46	833088	1 - 1532	15 - 1546	AL529745, AL521111, AL521110, AL530765, BG035239, BE741863, BE868745, BE783786, BG115436, BE743770, BF980935, BF032529, AA927626, BG170791, A1360106, BE792111, A1859705, BF515765, AL530323, A1696973, BE673724, BG059565, A1889305, AW194003, A1435237, A1015554, A1425058, A1653782, A1674150, A1292242, AW008174, AA443658, A1052216, A1689404, AW302350, AA682485, A1039198, AA069797, BG055892, BE740312, AA929022, A1559492, BF966723, AA507307, R89566, AA702532, BG055961, A1355925, AA436762, BF083167, BF083176, AW304693, BG152337, BG055803, AA447045, AV743176, R8883, AA069844, AW015302, N62841, AA340462, BF917627, H12262, AA700417, A1866372, BG222934, AA554984, BG036915, AW075240, A1364688, N77748, AA937871, AA507304, AV735802, AW263377, AW960326, BF038245, BF311363, AA770456, AA657774, A1904488, BF530542, AA327748, AW390282, R85655, AA609069, AW188781, BF885085, AL036980, BG165051, AW302992, AW673679, AW673635, AW268067, BE972180, BE964661, AV706744, BG105895, BG163618, AW946806, BG122481, BF343568, BG151247, A1336633, A1829327, BF764538, BF339594, A1349957, AW150511, BF816037, BG257535, BE886728, A1340627, A1433384, A1357316, AA830821, AW302965, A1620284, BE965121, BE884999, BE047952, A1500662, A1783504, AL036396, AA640779, BF344691,

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HCHBQ33	47	840756	1 - 507	15 - 521		BF983424, BF211760, AW157053, BF684202, AW162417, AW162988, AW162603, BF026414, AW157332, BF683534, BF976126, BG032643, BG163354, AW156922, BF974967, BF975973, BF685471, BF969890, AI680129, BG249316, AW157397, BF203227, AI283030, BF97083, BG113896, BG025992, BF969919, BG027552, BF794777, BG029512, BE409260, BF965750, BF338609, BF972865, BF972470, BG106216, BF310371, AI625563, BE314799, AI499186, AW157806, BG142254, BF316903, BF343200, BG033251, AV752124, BF796091, BF315655, AU119393, AI887440, BE794493, AW276357, BF310677, BE786311, BG165212, BF969189, AA314895, BG024853, BE777933, AU126898, BF726955, BF342583, AI090099, AU126739, BG253776, AW029096, F24940, BG057843, AW118506, BG110794, AI928061, BE742652, BF727358, AW160561, BF974254, BE797276, BG059640, AW966494, BF337295, AA583793, AI475867, BF313677, BG142263, BE792984, BE019795, BG104756, BE900127, BE313100, BE732159, BE560126, BE897114, BE272977, BE275883, BE383590, BE409100, BE886687, AU149662, BE293298, BE559675, BE513645, BF037214, BE798509, BE798984, BE874485, BG032309, BF680826, D52392, BE250986, BE253387, BE313181, AA845270, BE314620, BF034696, BE793979, BE882443, BE797123, BF237943, BE736165, BE276565, AA308667, BE790613, BG056375, BE793578, BE793105, BE293961, BE278732, AW328693, BE254190, BE256721, BE909905, AW768638, BF125047, BE795518, BE255031, BE383224, BE789157, BG142170, BE907032, BE620944, BE878341, BE797140, BE276635, BG034095, BE878240, BE909385, AI913962, BE542091, AI735731, AA714332, AA316221, BE901680, BE540321, BF700921, AA524000, BF127837, AA947503, BE254299, AI126588, AW021371, BF026845, BE393303, BF038496, BE888490, AW327273, BE735597, BE561847, AI631371, BE906540, AV689462, BF211684, AW966489, AW162175, BE409686, AW966488, AI523924, AW163020, BE901983, AI766436, BE394377, BE260396, BE397339, AA912488, N54519, BE563380, AW163636, AA514900, AA088705, AI718867, BE048153, BG113893, AA506094, AA159790, BF125341, AW161303, AW769068, AA115703, AA988424, AI198534, AA112416, AA714522, AI581865, BE795020, AW163458, AA507481, AA501840, BE313575, AI469509, AI797529, AA192753, AA720655, BE563655, AI200353, BE887791, AA577162, BG142255, AW515839, AI863295, AA158148, AW161036, BE559641, AI270389, AA603073, AA989575, BF210694, AI564456, AI453217, AA846028, AI925625, BE621765, AI817585, AA515423, N76221, AV745134, AW083236, AA313883, AA187267, F24511, F27741, F26359, AA776904, AA316420, AA181237, AW615576, AA157076, AI287833, AA835523, AA493670, AA846115, AI922586, F31236, AX015385, E06004, E01533, AC007969,

48	HD TMK30	840862	1 - 518	15 - 532	AX014325, M32405, E06005, J02983, AC010180, E01535, AB005624, M19393, E06003, E01534, M33330, M33331, D11388, D10167, AC005330, AL080060, U09759, and AA074254, AI831962, BE676430, AW162549, AI017574, AI017570, AI935049, AW951729, AW070785, AW160944, AI433969, BE379169, AA316765, AI208340, BE908740, AA570273, AA308469, AA932397, AA971868, AW328383, AI302264, AA335512, AI375912, F20835, AW050941, N40545, N46592, AW438545, AI276310, N92934, R70374, AI590641, BE395213, AA873604, AI610571, AA648290, AI392906, AA629912, T94441, AI580872, AV706442, AW438488, T94528, AA906326, AA621581, AI261782, AI095210, AA910827, BE392525, BE833101, N56229, U09770, AP000358, AP000359, AC024247, U58630, and M13018.
49	HD PFX64	841088	1 - 1368	15 - 1382	BF690243, AI635310, AV705585, BF967716, AW516059, BG171153, BE379346, BG165946, BE262120, AW103919, AA586820, BE270450, AA580196, AW392940, BF689694, AA809239, AI023735, AI031575, AI038145, BF212877, AV653577, AW025039, W46346, BE727824, AW005149, N94381, AA931405, AI309211, AI341743, AW024649, AI093535, AI369772, W47346, W16578, W42813, AW945189, AV705723, BF132768, AA992145, AW675359, AA907868, AA070469, AW135787, AI300765, AA776545, AA490938, AW606545, AI025359, AV694879, W46347, BG036926, AA725448, AW750158, N66103, AI244482, AI765611, AI344462, AI680024, H05080, R42090, AV703075, AV719545, AA916199, AW386885, W42724, AA576647, AW025028, F00072, R00895, AV683358, AW581256, AV695314, AV684515, W57707, AW945190, AV691040, BE831134, AV693290, N79589, W57783, BE711900, AA362580, AA745683, AI033697, AW581255, R88810, BF132335, AW951545, AV685847, AA374786, T29875, BF903989, AV696538, D11601, AA491124, T16992, AI914576, AA305378, W31989, BF953874, BF953867, AW197238, R21561, BE140647, BF959687, BF959697, H05540, R42941, AW406968, W47450, J02888, AB050248, U07736, U07732, U07733, U07734, U07735, and U07731.
50	HO DFG71	843485	1 - 2226	15 - 2240	AC019187, AF235098, AL049743, AL050335, AP001675, AC010348, AP000431, AC010283, AC005409, AC002554, and AC006992.
51	HCE3I65	844534	1 - 288	15 - 302	BF380320, BF770784, BF770772, BF770765, BF770108, BG109313, BE884633, BG110701, BF770763, BF380303, BF848233, BF770117, AW753076, N94851, BE887181, AW384469, AW384552, BE771991, H21705, AI741955, AI963814, AW299769, AI917621, AI742118, R55420, H42724, AW205801, AI394684, AW360906, AW360994, AW578414, Z19511, U91329, AB014606, and AC004771.
52	HS AVH65	847355	1 - 758	15 - 772	AW080832, AI693734, BF793712, AI564525, BE869501, BF037343, AV719716, AW024144, AA523930, AW475057, BF827012, AI185475, AI197788, AI708671, AV660309, and AR062277.
53	HB XFT41	847647	1 - 989	15 - 1003	AA778868, AA679725, AA361583, BE727943, BE798065, AA626529, T19700, AA384998, AA374709, AI908896, AI908908, BE255062, AW245790, AA280060, AI114472, AV726479, AA085949, AA081907, BE269296, AV709611, BF725352, AV714707, AV706440, BE790718,

					BE296483, BE745172, AV755536, BE274694, AU119430, BE744131, AU119428, AU119550, BE746420, BE620078, BF674845, BG260326, BF665845, BE254030, BE791005, BG119741, BF037583, BE744908, BF983949, BG251764, BF571453, BE898540, BE792102, BE729491, AI908937, AI908942, AI908943, AI908935, AI908888, BE747668, BE612555, BE620616, AI908938, AI908907, BE794070, AI908939, AU142280, AI908936, AI908930, BF308923, AI908944, BF208892, BE739876, BE746956, BE792493, AU118023, BF983503, BE388929, BE866950, BF310784, BE562649, BE792512, BE729603, BE798377, BF306882, BE542411, N88908, BE732108, AV704181, BE280824, BE799494, BE733715, BF683813, BE796036, BE394532, BE787810, T70160, BF980664, T79052, BE793454, BE271512, AI908946, AV752006, BE304426, AV752905, BE259857, BE798780, BE743625, BE796415, BE279618, BE410674, BE276446, BG027214, BE784784, BE384913, BE264022, BE382420, BE383098, BG122701, BE733796, BG254133, L02426, AL356747, and AC008774.
HBMCM38	54	847821	1 - 789	15 - 803	AA665893, AL080243, AJ277546, AC005056, AC005179, AC004671, and AC016597.
HACBO42	55	849064	1 - 1701	15 - 1715	AW961071, BE703222, AI703476, W51947, AA775876, AW118126, AW419310, BF055108, AI298553, AI168160, AA976583, AA931093, AI343013, AA622237, AI056138, AA101674, T19393, BF222266, BE327125, F12518, T74004, AA825247, AI348336, BE173228, H08634, AA757564, T32177, H08635, BF061085, BF060724, BF446952, F10138, BF058335, BE502582, AW051846, AA426547, T87212, D81092, AI690133, D55877, and AB040799.
HODBF86	56	859572	1 - 913	15 - 927	AV694711, and AL049744.
HOABP90	57	859622	1 - 1239	15 - 1253	H84974, AI915939, BE396949, D51418, AA158104, D51544, AA828306, AC006387, AI2297, M31158, J05692, and M12492.
HERUE42	58	862010	1 - 1640	15 - 1654	AL515943, AL520278, AL531137, AL515942, AL520279, AI217895, AW960744, BF970078, BF001249, BF036496, BE395420, AI983150, BE277851, AW385698, BF979048, BF688139, AW374106, BE395502, AI660124, BF541042, BF210794, BF036241, BE567389, BE778929, BF103631, BF209890, AI339010, AW374124, AA166971, BE564629, BE971080, BE276625, BF509403, AA542906, AA689356, BF695952, AI285269, AI346870, BF541205, BF030313, BF243030, N27706, AW236815, BE567683, AI821074, AI821227, BE566782, AA166818, AL134542, BF570861, BF059406, AA836112, BF130491, BF695731, D20721, BF677074, AI221030, BG118818, BF106059, AA627350, AW027663, N35710, BF674060, BF029128, BE933681, BE933586, AI221246, AI285231, AW372396, T95430, AW372395, AI699709, AL134543, AA055338, AA449417, AW197834, BF030982, R83129, AI418208, AA375954, AA450383, AW958166, AA961046, N20259, AA336834, AA226636, AI911109, AA225691, N20865, AA825421, AI932769, AA938413, AW197872, C03633, AA370379, N29162, AI620095, AA055337, BE694074, AI932771, BF697063, BE468082, AA976076, AI821821, AA173926, AA173884, BE857593, AA569611, AI821883, AA772955, AW383971, BE898721, AI921241, AJ224875, and AF271985.
HUSIJ59	59	862481	1 - 476	15 - 490	BE907643, AW327356, AV735093, BF792025, BG164383, AV756498, BG109142, BG029612,

					<p>BG109661, AI686064, AW104310, AI524513, AV744389, AA128297, BE560561, AV757265, F36107, AI125537, H72703, AI302668, BF678743, AV682013, BE905381, AA130380, F27615, BF216773, AV712461, AA934903, N99899, BE394168, AI125542, H72704, AI796626, AA314160, AW518185, W68325, BF975221, F24460, AI832538, F30577, W68324, AI497592, AA054941, AA872295, AA070687, AW006071, AV758709, AA962230, AW274476, AA884221, AI197806, AI198400, AW005308, T79469, AA302263, AI139027, AA722653, AA594400, BE737684, AI718047, AA652237, BG008943, AI302442, AA054942, BF680026, AI245664, F25027, N63141, AA927181, BF207713, F36673, AA846168, AI660015, AA908189, D50999, AA329037, BE738658, AI589655, AI499968, AA366606, F30607, AV711850, AA515879, BF238919, BE041814, F26441, AA769698, T79560, F34346, BF214417, T97719, AA483049, BF091216, AI207479, AA302083, BF216648, W25240, T97822, BG059341, AA687617, T85228, AA492203, AW793013, AA535395, AA602796, AW238261, AA216085, F24359, T89188, AW514738, BE615484, AA649489, BF246601, AA642762, AA935966, AV743817, AA634729, AA886084, AV744110, BF239063, W55855, BF383068, AA344058, BG099692, T24567, AA062811, BE707385, BF246068, R29682, BG230802, BG231094, AW362810, AW131255, AA128316, BE567457, R31939, AF085986, AF070661, AF086763, U73629, AC004770, AC004228, AF119902, and AF137396.</p> <p>BE886761, AL520319, AW966039, BG252451, AL520320, AW375346, BE733511, BG114170, BF965742, BE559952, AW992850, AI829890, AI762105, BE788349, AI140601, AW365644, AI720778, BE740440, AW138255, AA772248, AI826338, BE502698, AA609490, BE927727, AI337251, AA971588, AW000925, AW301625, AI126519, AW673462, BF445347, BE327631, AW451288, BF111138, AI948721, R56414, AI684485, AI024528, BF111141, AA971582, AW675784, BE410672, AI363500, AW192954, AA565322, AI420978, AI263464, AW300687, BE348598, AI218550, AI369735, BE552303, R52184, W15529, AA022472, AA992460, N92817, BF091934, W31215, AI500339, AI906867, W39653, BE884207, AA255525, BE743589, BE674618, AV653705, BE618430, AA456635, AA772558, H29107, AW168493, BF026061, R56415, Z43129, BE387896, AA889111, R52092, BE811013, BE810908, BE810888, BE810898, BE810993, Z39214, BE810943, BE831903, AA322368, BE831912, BE810913, BE810939, BE810936, BF984499, T30757, AW901051, BE811016, AA364978, F02409, W04545, BE810887, BE811012, BE810873, BE810911, AI650748, BE810949, H29005, AW581134, AW581202, BE810871, AA490627, AA382734, AA256709, BE810969, AA023006, BE811003, W26238, BF529119, AW581211, AI783932, AW385906, F33591, R11750, BE963464, AA382733, W24938, C00533, BF092258, BF092249, AL122054, AL137324, and U67085.</p>
HSSDM07	60	863515	1 - 2584	15 - 2598	
HBCBW52	61	866444	1 - 1488	15 - 1502	<p>AI732563, AI732596, AW469418, AA132859, AA053401, AA132947, AA053416, AA131083, AA131111, AA053057, AI439525, AV756663, AA525818, AW974363, AW020094, AW021399, AI521525, AI572680, AI049999, AW020150, AI348780, AI797998, BF814446,</p>

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HOGAS18	62	867969	1 - 906	15 - 920	<p>AL049843, AC078889, AC005231, AL096840, and AC013434.</p> <p>AV759518, AW827240, AI133297, BF347791, AI932493, AW827130, AL042753, AV762395, AA483929, AW023990, BF347740, AI751216, BF337291, BG153869, AW857802, AI499588, AA846952, BE065673, AA664909, AV739452, T06754, BF679256, AI039584, AW872348, BE782280, AV755907, AL039145, AW020340, AI583283, AA633753, AV745092, AW827120, AA961035, AI471887, BF677892, AA634889, BG249643, AA458703, AW963750, AL038705, BG109996, AI119691, AV733824, AW275510, AL135377, AW512484, AV742875, AW235497, AW168618, AI538870, AW270343, AA531079, AU140328, BE297262, AI345157, AA547947, AW021735, BF437493, AA584167, AV736964, AV710066, BF816072, AA533303, AI687343, BF885142, AV733627, BF902055, AW866226, AI445674, AI732547, R86151, AW303002, AW960545, AI247199, AA661921, AV763550, AI284640, AV764307, AI536665, AI872020, AA569471, BE378770, AW021207, AW472872, AV740801, AI311927, AW149339, AW969870, R24887, AV764578, AI101689, BE252421, BE139146, H71429, BF942454, AA467932, AA639326, AA493695, BE147488, BE973754, AL046409, AI956124, BF698704, AW302903, AW084466, AV734666, AL045808, AL046156, AI568678, BF738242, AW148507, AV760378, BE164494, AI888759, BF874664, AA468022, AV760207, AI801482, AL042853, AI798266, AA533333, BF691714, AW968181, D58349, AI873990, AV762098, AV761547, BG113106, AW302013, AV738993, AI382825, BE253048, BF970654, AA632600, BE967622, BF699964, BF185578, AV730301, AA541423, BE907585, AA502104, AA309257, AV710996, AA320966, BF697673, AA490183, AA954924, AW327868, AW419237, AL048925, AV703942, AV707949, AA683238, BF792954, AW833862, BF792883, AV763354, AL044940, AI969436, BF681661, BF680084, AV763971, AL044904, AU121503, AA765736, AA650211, AA847499, BF853144, AI270117, AL049766, AB037825, X55933, AC073316, L47228, X55929, AC006483, AL031279, U67831, AL008718, AL136980, AC005900, AL359763, X54177, M37551, AL136311, X54179, AC006930, AC023154, AL049870, U57005, AC003108, AC002310, X54181, X54175, U57008, AL080315, X75335, U18392, U18394, AB023798, AL354670, AC016939, AF109907, AC005221, AC005815, AC007881, U57006, AF038458, U18395, I51997, AC007014, AL035455, AK024741, AC007537, AC010282, AL031774, AL137019, AC003101, U07562, AC016601, AC007226, AC007907, U18391, AP000962, AC005180, AC006530, AL356414, AC004890, U57007, AL161422, AC020934, AC004150, AC025593, AL049760, AC002115, AC025447, AP001667, AC010154, AC020956, AP000472, AC007298, AL445225, AP000307, AL391119, X55926, AC008960, AF015151, AL355094, AL022163, AC006226, AC023275, AC006211, AL157776, AC007671, AC004977, AC005527, AC010789, AC007383, U57004, AC009244, AL031281, AP001683, AC035150, AL162377, U18393, AC007546, AL121886, AC005517, AC034246, AL050318, AC025434, AL135927, AC007227, AL031847, AC008033, AP000088, AC004802, AL122001, AC020904, AC008733, AP000350, AC015651, AL096840, Z83733,</p>
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HHSDL18	63	869701	1 - 1374	15 - 1388	AA812573, AL518998, AW972473, W73306, AL522221, AI809692, AA513449, BE501387, AI148527, AW452872, AW245994, AA954445, H57889, AW183378, BE872438, AA813225, AI619978, BE794663, AW197888, BF083329, R24069, BF209308, W73041, BE502424, R24121, R26598, AW245458, AI929294, AA249846, AK024151, AL121754, AC008155, AC025593, AC004690, AC083870, AC005011, AL121897, and AL022238.
HTFMS34	64	870486	1 - 447	15 - 461	AW402328, AA354692, AA724612, AV758954, AV744331, AA158742, AI768253, AA353944, AW001224, AI857605, AU156990, AI830105, AA987516, AA588890, AW979250, AW979200, AW974813, AW969719, AW979221, AW975126, AW979156, AW970932, AW973116, AW975987, AW973183, AW975409, AW979220, AW979219, AW973808, AW970064, AW979284, AW974983, AW972802, AW970030, AW975427, AW971985, AW979197, AW975951, AW975012, AW971097, AU137027, AW974802, AW971070, AW970564, AW973136, AW970877, AW975928, AW974987, AW969682, AW973771, AW972762, AW973103, AW971963, AW979145, AW972699, AW975070, AW973217, AW973814, AW972417, AW979140, AW971068, AW976019, AW971949, AW976008, AW969751, AW975656, AW975004, AW979228, AW979194, AW969753, AW970875, AW970921, AW969735, AK024342, AL121928, AL050035, AL135904, AC004889, AL136137, AC009060, AC006480, AC005587, AC010605, AC005783, and AC005696.
HLD0G81	65	874506	1 - 1220	15 - 1234	AL521118, AW339982, AI827788, AI627750, AW575122, AL531441, BF967087, AL038656, AI888509, AW156877, AI094580, BE349949, AI963436, AI634293, AI891103, AW080820, AA910949, AW009916, AW338663, AL525766, AA514770, AL037705, AI924086, AI951034,

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HTXQF81	66	874608	1 - 1226	15 - 1240	BE735657, BE794634, AI346435, BE794294, BF035725, BE540828, BE736917, BF971130, BE874911, BE875498, BG163362, BE619340, BE543544, AV708235, AI813687, BG168124, BG029001, BF310923, AV703089, BE546820, AI523881, BF034887, AI246030, BE515214, BE789330, AI565163, BG178201, AA402794, BE784412, BG169860, BE878355, BE393961, BG025146, BE880077, BE874897, BE790171, BE786644, AA477593, BF968299, BE259495, BG180371, AA161137, BE394326, BF130503, AI394235, AI814324, AW328354, BF978913, BE909230, AA873099, BF093785, AA887676, AW752983, AA622341, BE048130, BE2666971, AA161115, BE909193, AW386295, BE870857, AI280907, AA421577, AA552244, AA574027, AA453330, AI523581, AA826619, BF677836, BF030389, AA464842, BE620003, AA766218,

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HCRNG90	67	874787	1 - 1061	15 - 1075	BE891902, AW271686, BE677446, AW025554, AI420969, AL521237, BE879239, AI202304, AA375089, BE245380, BE246652, BE547456, AA337142, BE879198, BF218778, X55740, D14541, J05214, L12059, and U21730.
HPWCL64	68	874891	1 - 653	15 - 667	AA531009, BF114862, BE645201, AI803060, BE746455, BF111457, AW058661, BG060155, AW957837, AI871128,,AI040865, AI635619, AA279688, AA314121, AA291325, BE044274, AI300358, AI026031, AW136587, N48589, AI333491, AI217438, AA872204, AA313681, BG149853, AA761900, AA825668, N62189, AI742355, AI167192, AA782249, AI472224, AI027048, AA969624, AW957912, AW505197, AA907863, AW576584, AA229718, AA489085, AI356298, AA496950, AA490549, R81199, AI915658, AW500237, AW242542, BF109353, AA489150, H41907, F09870, AU1126430, AV726684, BE061082, AI809172,

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HWLMV62	69	874930	1 - 595	15 - 609		AI718277, AI806204, AI922705, AA134958, AW189584, BE940626, AW152541, BF436606, AW589567, AW779876, AA911194, AA099689, H26598, AI523349, AI783469, C06405, AW979187, AA856931, AW050657, AW580584, AA650629, AA075317, AW993789, AI535926, AF095844, AC007750, and I50896.
H2MAC06	70	874931	1 - 946	15 - 960		AA837575, AI750047, AI762213, AW778875, AA528093, BF594424, AW517424, AW612993, AI749649, AA514773, AA514789, AA421943, AA167440, AI708618, AA400973, AV740396, AI474120, AA514874, AI283967, AV738755, AW845024, AA587027, AV738776, AA167783, AV738660, AA642930, BF879539, AA878029, AW193324, AA857522, AI284506, AA164459, AA164458, AV741975, AW583341, AA838234, AA169874, AV739857, W38398, AW276087, AW264913, AA148194, AA308126, AA169614, AI669077, AA074902, AA148193, AW583781, BF893727, AA079651, BF802476, AW190644, AI306666, AV735674, AV735675, AA167439, AA857853, AA074845, AI199258, AA535642, AI826800, AA166792, AA074727, BF893886, AA421944, AA165663, AA075896, AW751341, BF875085, BF765758, AW265060, AW845005, AA076140, AV739168, BF879359, AW591737, BF748440, BF898643, AI626104, AA076188, AI541032, AA837890, N27757, AA102361, BF903121, AV741814, AA165649, AA100735, BF895363, BF892331, AA524360, AI833071, BF748145, AV741817, AA079557, AA593897, AI680515, AA573267, AA401137, AI675895, AA506601, BE696957, BF893703, AV743848, AW272215, BF354583, AA076566, BE004062, BE183618, AV740205, AA837854, BF334915, AA515574, N79823, BF894855, AA169569, AW364597, U47734, AA173827, BF094310, AW664712, BE184103, BE171567, BF354577, BF805800, BG057623, AW150580, BF918052, BE811764, AA299459, BF893822, AA298668, AI810491, BF893729, BE140374, AA076565, BF894873, AI940001, AW062899, BE004010, BF801920, AW062852, AW062884, AW475086, AA366738, BE171661, BF893097, AI797418, AV737676, BE645920, AA298242, BE183717, AI939989, AW352267, BF893885, BE716617, BE859013, AA503624, BF893856, BF894876, AW062699, AI559933, AI749194, AI866124, AA172395, BF900257, AI697412, AI473481, AA502597, AA329732, BF896945, AW270590, AW778853, AW969360, BE711057, AW000856, AA471032, AA494293, AI695633,

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HWLRF06	71	875093	1 - 371	15 - 385	AW841682, BF766770, and D63997.
HODDO41	72	875352	1 - 583	15 - 597	H69413, H69440, AL120745, AA830102, BF898213, AW340795, AI457813, AC007546, AF064604, and AF155103.
HCHMQ74	73	875371	1 - 426	15 - 440	AA305616, AW861809, AW001611, AK023741, AC006057, and AK001527.
HT3AI55	74	875682	1 - 1467	15 - 1481	AL523414, BE565623, AW955610, AL523413, AI088910, AW469112, AW043896, AA005100, AA262517, AI470354, W78980, R89654, AV750391, AA261819, BF447445, AI079770, AA037517, BF834666, BF834676, BF834673, BF834677, BF834554, BF834667, AA328236, BF836570, AI584124, BF836573, BF836554, BF836568, BF834674, BF836564, BF836558, H19672, BF748075, BF751207, AL247711, AL217267, AV747710, AK025671, AK000219, AL121782, AB034617, and AL121754.
HMVBD68	75	876052	1 - 1266	15 - 1280	BE85169, AW970061, BF439457, AW575699, AW468388, BG116413, BG170032, AW083378, AA057509, AI679190, AV727466, AA574451, AA599718, AA054285, AA706513, AI707934, AW023524, BE142955, R66161, AA199863, AA862725, R84843, BF247952, R85715, AW973101, AW975244, AW979090, H86142, AW975971, AW627831, AL038837, H86028, AW979076, AL039074, AW975143, AW971975, AW975166, AL039564, AL039108, AW972154, AL039156, AW979228, AL039085, AW969930, AL039659, AW979176, AW975941, AL039625, AL039648, AL039678, AW973762, AL039150, AW975022, AW971953, AA059178, AL037051, AL036725, AW975626, AL039629, AW971954, H00069, AW974379, AL039109, AW973821, AW975981, AW972296, AL038531, AL039128, AW969748, AW970540, AW970969, AW979212, AW979147, AW976024, AW971968, AW969885, AW973789, AL040992, AL045337, AL037726, AW970587, AW975434, AW975650, AL042909, AL039423, AW979204, AW973772, AW975596, AW969694, AW971326, AA013394, AW971403, AW968147, AW972440, AL039410, AW970942, AW969798, AL134524, AL039538, AW973254, AW979037, AL044530, AL045353, AL036973, AW968338, AW975058, AW973812, AL044407, AW971404,

AW973819, AW969782, BG152806, AW974658, AL038821, AW968181, AW973200, AW973241, AW979208, AW973805, AW969803, AW979250, AW968212, AL039386, AW976511, AW973393, AW975952, AL036418, AW973808, AW972212, AL039924, AW973811, AW969988, AW976515, AW975154, AW969874, AW975162, AW970108, AW973781, AW973780, AW971964, AW974338, AW970936, AW979211, AW972736, AW973097, AW975968, AW975876, AW973127, AW979144, AW979294, AW979002, AW063533, AW969698, AW979238, AW969794, AW979093, AW970927, AW968200, AW979173, AW975046, AW979064, AW975261, AW972156, AW973219, AW979098, AW976510, AW969756, AW975938, AW971965, AW971305, AW979160, AW969768, AW975966, AW973380, AL043441, AW975173, AW979054, AL043445, AL037082, AL036196, AW974993, AW970020, AL037639, AW973164, AW969656, AW979113, AW971984, AW976506, AW969895, AW975172, AW973386, AW974915, AW971001, AW975950, AL039566, AW979127, AW970947, AW971952, AW975106, AW971985, AW975229, AW973103, AW968148, AW974786, AW975914, AW973810, H39007, AW973168, AW975917, AW975649, AW969783, AW975433, AW975928, AW972786, AW974692, AW979078, Z99396, AW975157, AW975255, AW979068, AW971974, AW975161, AW971962, AW968205, AW975965, AW979088, AW972784, AW973368, AW975214, AW975915, AW975144, AW973381, AW973165, AW969884, AW974801, AW975935, AW975987, AW971938, AL043422, AL039509, AW971087, AW971949, AW979295, AW975174, T24119, AW975982, AW979131, AW975948, AW979284, AL037526, X95073, AR096545, AX046357, D14548, AR073846, AR066494, AR071572, AX003207, AX006816, AR017907, Z96142, AR038286, X68127, I92483, AR062871, I03665, I03664, A15078, E00523, A67220, AC069451, AF261964, AX020190, AR095492, X73004, A95051, A58522, AR072501, AR036905, AR072503, A92133, AR072502, A97211, AR080470, A58521, AR077142, AX006818, A02712, A85477, A85396, AJ244003, AJ244004, AR062872, AJ244005, AX006823, AX046223, I06859, AX001322, AR062873, A18050, A84772, A35536, A35537, A23334, A75888, I70384, I18371, AX011024, A20702, A60111, A23633, AR043601, AR025207, AR007512, A18053, A84776, A84773, A84775, A02135, A02136, A04663, A04664, AR083151, AX009712, AX026821, A84774, A43189, AX012337, I66495, AR031374, A43188, AR085082, AR085089, AR085091, AX006820, AR067731, A38214, AX033488, A49700, AR031375, AX033489, A20700, AX001325, I66494, AX001326, AX033490, AX001323, AX035632, AX001324, AX035630, A64081, AR088705, AR008430, AR067732, A44171, AX035631, I56772, I95540, AX035629, AR018924, AX033474, AX033486, AX006819, I60241, AX033487, AB037923, A63067, I60242, A51047, A63064, AR018923, A48774, A98767, A63072, A48775, AR068507, I66498, I66497, I66496, AR068506, I00074, I66486, I66487, AR079804, I19516, A58524, AR015960, A91750, AR064707, AR085079, AX023553, AX035462, A93963, A93964, AR000007, AR015961,

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HOCTA74	76	876487	1 - 671	15 - 685	AI302800, BF109314, AW118693, AI808667, AI065036, AW080952, AA862461, AI201847, AI138543, AI015998, AA865819, AA470462, AA454546, AI221895, AA481881, AI039771, AA53254, AA482063, AI301489, AA551867, AI018725, AI121442, AI244932, T88913, AI914566, AI017732, AI016693, AI833052, AA608575, AA120921, AA120922, AU149626, AV720099, AW510983, N57711, BE302246, AW151576, AI572464, BE328214, AI471156, BF769730, AW473129, R85699, H60433, AA890675, AI262997, AA620388, AV719431, T47276, AA534566, AI625454, AA852619, AA889211, AW631306, AA707578, AI718799, T47275, AI124998, AA477467, H88225, AA680222, H63348, N63309, AA131070, AA131015, AW627418, AI474581, AI561334, BE936086, AV733805, BE936002, BF092360, AW861944, AW804686, AW604723, AW392670, BE695785, AW877209, Z99396, AW372827, BF868697, BE705905, AW858526, AW858525, BE705903, BE705906, BF868687, AW577135, AW384394, AW861889, AW858455, AW861954, BF868684, AW363220, AL119497, AL134528, AL119443, U46341, AW604726, AL119457, AL119319, AL119363, AL119341, AL119496, AL119324, BE705904, AL119355, AL119483, AL119484, AL119391, AL042965, AL119335, U46350, AL134920, AL119522, AL119396, U46351, U46349, AL119418, U46347, AL119444, U46346, AL037205, BF868696, AL134902, AW979212, AL042614, AW971745, AW975037, AL119439, AL042975, AW969885, AW979204, AL119399, AL042551, AW971387, AW973770, AL119401, U46345, AW973185, AL134518, AL134524, AL043029, AI142132, AL136526, S79219, X14608, M22631, M26121, AL122056, A81671, AR066494, AR060234, AJ279014, AX046357, AR054110, AB026436, AJ251859, AX030435, and AR069079.
HISET05	77	876686	1 - 912	15 - 926	AI392987, AW204721, AI380500, AI887979, AW166458, AI935193, AI739272, AI393078, AI337398, BE908889, AI262967, AA621187, AW780031, BF002042, AI002949, AA622165, AI078264, AA080959, AW370639, BF001449, BF982414, AA082985, BF001683, AI857378,



HCRQM22	78	876696	1 - 433	15 - 447	AI812113, AW439180, BF818644, BF002657, AA449424, AA514476, AI262637, AI051534, AI374677, AA442087, AA425339, AA594240, AA416576, AA527340, AF287967, AJ270993, X58431, X56459, J03782, U15407, and AF012098. BE544606, BF529981, BE786721, BE251508, BE258319, AW794597, BE255394, BE890405, AL525853, BF757575, AW403014, AI904490, BE747560, BE535798, BE546101, BG028773, BG023780, AI831848, AA115313, AI761315, BE885000, BF808237, BE537206, BE535666, BE535661, BE389956, BE540274, L16783, U74613, U83113, AR030545, A79030, U74612, and AC005841.
HLHTC92	79	877310	1 - 839	15 - 853	R66025, R76969, AW043721, BF109415, AU122689, BF589412, AA553904, AW973590, BE182756, AI417134, R58054, U77970, AR059959, U51625, U77969, and AR059960. AL518281, AI279876, AU123950, AL517520, BE738492, AU122239, AI539769, BE614356, AU127471, AU137119, BE782437, BF032266, AW954410, BF917448, BG114466, BG025422, BG258893, BF793578, BF695505, AA876127, BE535422, AI963800, AA206425, AI969470, AU123404, AL517519, BE884471, BF210187, BF978343, BG258084, BE044090, AU129257, BE079257, AU150519, BG035397, BF696016, AI951966, AW605343, AA459503, AW609270, AV726771, BF576773, BF910792, AW582085, AU152326, AA778294, AW582079, BE546929, BE565375, BG171787, BF939707, AA639198, AU153689, AW609318, BF375096, AA446426, BF094456, AU149119, AI334209, BF081392, BF978405, AU124260, AU119230, BF375101, AW582064, AW813451, AU150709, BF375184, AU159355, BF977470, AW813456, AU152457, AU151017, AU151416, AI150191, BF213914, AU158145, BF573572, AW609320, AI281280, AW149760, BF375091, BF819052, AA446118, AA459274, AA236997, AW609271, AI587101, BF212914, BF243356, AW609290, AW609276, AW662423, AA946837, AI922323, AI198839, AW813453, BE960873, AA568602, AA777025, BF380050, AW376909, BE910222, BF375112, AW582063, AU127770, AW582101, AI139373, AW813471, AW972374, AW609285, BF375104, AU152034, AI753243, AA789258, N95643, AI754062, AW582102, AU150043, AA236574, AI140786, AU145626, AW813461, C75603, AA075484, BE395097, AA251521, BF970745, BE090595, AA587266, BG121171, BE042577, AW609317, AU148699, AW439362, BE546818, BF375089, AL121103, AU154945, AA213367, AW609263, BF375081, AW609294, AA837311, AU123797, AW582067, BF932351, AU156384, AW609291, AI187231, AA227539, BF132102, AI344110, H67810, BF375080, AV723252, BE782617, AA075621, BE834271, AW609293, W95535, AI400951, T65536, AW609280, AA872668, AI192986, AW571539, AU134775, C17463, BE566077, AW970128, AI859211, AA470471, AW609423, BE871406, T17222, AW192135, AA506763, BF248125, AW139044, AI913866, AA192466, AA165156, AI826398, AA678954, AI271344, BE090601, AA113939, C05669, AA137249, H17790, F11801, BF825064, AA164768, C75565, R89384, T16445, T69722, N66040, C18698, H59003, AA503343, AU123857, AA339152, AI025443, D81644, AW582082, R78076, BF222253, H58956, BF818865, D60375, BE094097, F06655,
HLHTC92	79	877310	1 - 839	15 - 853	
H2CAA49	80	879484	1 - 2296	15 - 2310	

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HETKQ94	81	880545	1 - 2418	15 - 2432		BF205433, BG025867, BF206942, BE867291, AI814360, AW665404, AW247024, AA971547, AW250225, BF701516, AA781889, AI932216, BE858661, AI144206, AI146546, AA436490, AI494424, AI951048, AI123552, BF185575, AA436445, N25312, BF092058, BE465537, BF931581, AI286226, AI005130, BE719412, BF336730, AF121170, BE931962, T20250, AA464700, AA463999, AW814610, R61444, AI911401, R11114, AA515534, AI680399, BF436747, T20249, BF821425, AI382750, AI580715, AW440012, AI569246, BE645712, AL043113, BF876211, BF846186, T91232, AI240523, BF247639, T86015, N71736, AA770594, AI350837, AI908616, BF820057, AI610364, BF435992, R61399, AI394618, N39715, AA966341, BE173985, AI224483, AA215637, AK025530, and AK025445.
HOFMO23	82	882466	1 - 730	15 - 744		AL525975, AL525520, BE263255, BE144775, BG163687, AA340612, AA375347, AA375265, BE880915, BE880848, AF089745, and AC083863.
HNTNP58	83	882787	1 - 2826	15 - 2840		AI829734, AI073471, AA884114, BF983127, AA507637, H59240, AI263494, AI288403, AL121978, Z93023, AC010677, AL035070, Z82190, AC005154, AC003101, AC004883, AP001697, AC004584, Z94721, AC025593, AC005030, AL121601, AP000010, AP001432, AL163303, AP000151, AC007842, AC006483, AC008050, AC007226, L78810, AC006203, AP001728, AL031281, AC016526, AC005011, AL121777, AC005696, AC002073, AC011894, AL049758, AC004967, AC007731, AC005500, AC008155, AC007685, AC005730, AC018637, AC004983, AL121585, AC002404, AL035455, AP002026, AC007050, AL163201, AC005520, and AA913363.
HOFNY28	84	888480	1 - 1605	15 - 1619		BG258222, BG117025, BG168645, BG253641, BG168646, BG167818, BG025417, BG164284, BE612896, BG252223, BE910738, BF345060, BE621811, BE621893, BF984267, BF798053, BG123011, BF984992, BG031014, BG117026, BG117030, BE621810, BG168644, BE614378, T29199, AA362689, AA362688, AA362690, BG253645, BE613101, AW968355, AW972092, AW968356, AW972093, AW968729, AW971740, AW972091, AI432644, AL045327, AI623302, AL134524, AI432653, AW969229, AI432654, AW081103, AI431328, AW972090, AI432677, BE672759, AL044652, AI431230, AW858522, AI431353, AI431312, AI432655, AI431310, AI432650, AR080280, A49045, I66487, A94048, A94061, AR035224, I66498, AR070554, AX002278, AR071324, I09252, I09251, I07209, I07249, AX042374, AX033488,

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HOENU55	88	897344	1 - 691	15 - 705	BF812933, BG151247, AL121270, BE887488, AW087445, BE048071, AW071349, BF968493, BF792469, AI349772, BE018334, BG031815, AI064830, AI499463, BE876033, AI702406, AL513553, BG168696, AL513907, BE047952, AL513911, AL514919, AL135661, BG164371, AI433976, BG179993, BF795712, BG036846, AL045500, AI433157, BG252929, BE963035, BE877769, BG032208, AL040243, BE904178, AL513753, AI440239, AL513837, AL047763, AI275175, BF343172, BE047863, BF971016, AI620284, BF038131, AL119791, AI539771, AL046849, AW827203, BE785905, AI500659, AW117882, BF812438, BE048135, BF037097, AV681949, AL515041, AL036146, BG252914, BE048179, BF726421, AI436456, BE048081, BF793324, BF726297, BG257535, AW274192, AI568855, AV681668, AI348897, AI873731, BG113662, BE048319, AW074993, BF344479, AW162071, AL047042, AI349645, BE781369, BE172767, AI538716, BG260037, AV655645, BF726001, BF727212, BG026194, BF726322, AL119748, AW238730, AL514691, BF344652, BF885675, AV735353, BG058208, BF970093, BE964812, BF793644, BF883916, BG114104, AI568870, AI758437, BG109270, AW301409, BG110684, BF724691, BE047738, BE894455, AL036396, AI340582, AI349933, BG250190, AI868831, BF969484, AI597918, AI521012, BG120816, AW089572, AW071417, BG257920, AI349256, AV727776, AW827249, BG112879, BF794994, AI863014, AW195957, AI540832, AI613017, BF792099, AI439087, AI250293, AL120736, AL036802, AI678302, BE882656, BF812961, AI249257, BE047859, AL514803, AW103371, BE964700, AL513693, BG170430, AI281779, AI857296, BF882334, AI349004, AI702433, AI440426, BE891101, BG180034, BE048026, AI345735, BF812938, BF340031, AI699857, AI862142, AI633419, AI498579, AI866002, AI499131, BG2559801, AI281773, AV711509, AI597750, AL044207, BE968552,



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HNTCH73	90	900546	1 - 1555	15 - 1569	BE877424, BE612406, BE867398, BE873237, BE512843, BF983505, BF984185, BE304524, BE871951, BF983498, BE962323, BG248621, BF984535, BE870587, BE872539, BG108575, BE873272, BG026835, BE868837, BF434094, AW362700, AA777371, AA479141, BE512742, D51188, AA479140, BE740078, BE869477, AA468551, BE304763, AA463224, BG248254, AA576646, BE617281, AI312731, AA584413, AI886718, BF982469, BF928257, BF928454, AA873550, AW753810, BF806796, BE771212, BE771215, AW362728, AA463225, AW362712, BF819079, BF810890, AA730073, T54230, AW602572, AA333903, AA358807, D51376, AW753502, T28171, T54134, AW950374, AW362081, BF926988, AI129853, AW609632, AW378785, AW390826, N86263, AW390848, AW815472, AW379982, AW379983, AW884062, AW815758, BE771216, AW815719, AW264254, D11692, AW378783, AI748892, BE868305, AI034316, AW191034, AI219728, AW148594, AW389490, F04809, BF768876, AR031483, I08631, I78457, AR075479, D30751, I11746, AR075485, U43842, AF042497, AF136233, Z22607, X56848, S65032, E04737, L47480, D14814, E03671, AJ005076, AF058764, X64538, D49972, U90122, U82231, AF056336, AR009509, AR048315, AR075484, and A91867.
HHFBY53	91	902534	1 - 956	15 - 970	AA346699, BE897269, BG109478, BG178294, AV718692, AV723772, AV708119, BF883916, BG179993, AI370129, BG108324, AV755207, BE047863, AL514935, AI349772, AI500077, AL513643, AI436456, AL036396, AI687376, AL047042, BF343172, BF037097, AV655645, AL119049, AL036802, AV681857, AW827211, AL514627, AW827203, BG036846,

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HDPIE44	92	904763	1 - 4006	15 - 4020	<p>AL528314, AU130887, BE780963, BF966718, AL118570, BE739397, AU126476, AU139315, BF512830, BG115027, AI908306, BE880693, BF540985, BF791388, AU122664, BF035925, BF665031, AI672418, BF206660, BE738855, BG120429, BF129883, BF057158, AW959181, AV724420, BF106186, BF966523, BF213412, AL042137, BF211302, AI042351, BF206917, BF031857, BF515714, BF131974, BE514139, AV696443, BF037314, AW130577, BF129874, AA424461, AV661523, AW130565, AU127429, BF677116, AA902916, AU150429, AI239435, BF665735, BE155330, AV705068, BF212900, AA983275, AV710135, BF432386, BF211687, AA461260, BF057834, AA312396, AI627321, AI160503, N63373, BE502195, AV751301, BF184200, AI884925, BE559625, BE468064, AA186321, AV750990, AA749086, BF513143, AU152756, AA402517, N26419, AW025721, AI418879, BE268734, AA088855, AI042350, AA678020, AU150014, BF184441, AA113363, AI761107, AI457727, AW341372, BE674349, BE270920, AA888970, AA580858, AA649198, AV649723, AA100701, H24854, BE836719, AI819134, AA199866, AW025691, BG010680, R77878, BE087003, AA326555, BE550985, AA188173, AA424417, AI640581, H05951, AL044709, BF930036, BF792719, N41679, N56631, BF923482, AW779309, AI218982, H45855, AV751002, BE089649, C17343, R81295,</p>

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HHSAX10	93	904783	1 - 2530	15 - 2544	AL536179, AL533946, AL533947, AL537797, BE613134, AI401562, BF343559, AV746302, AW961160, AI928515, BF966793, AV723437, BF526420, BF725404, BF035547, BF034426, AW753303, AV751398, BF940225, AL037012, AV722341, AW291377, BF340849, BG167789, AA446330, AV745305, AI942480, AI332363, AA443173, AV746253, BE326680, AI924756, AI989804, AI089825, AI423344, BF343626, AW264140, AV745498, AI655012, AV745371, AI418141, AV745442, BE783669, AI831023, AI815927, AV745783, AV746250, AI598128, AI685430, AV746136, AA293039, AV746047, AI131952, AV745494, AA446510, AV724999, AI050790, NS1854, BE612567, BF530507, N62627, AA131865, AA781772, M62252, BE244781, AI816187, AW162757, AI167936, AV745512, AV726539, AI003401, AA307598, AA349403, AI143672, AW161966, AA148523, BF529438, AI625601, AI445688, AW900480, AI124706, AL037633, AA293431, AV746086, AL534788, AV745509, AA457374, AA148774, AW051680, AW892804, H08939, AI262177, AW296899, AA604202, AA719581, T15711, AV745470, N78398, Z44301, H89097, H08855, AV708127, H83746, AV745322, BF530020, AW090772, AI880020, AA463482, N45508, AA351563, BE514717, D58472, AV746088, T33816, R26136, AA781761, Z40260, AA912327, AL135377, AV701257, N71208, AA018269, AV732497, AW291641, AL138265, BG056993, H88534, BE858449, BF913258, BE244558, AV746063, AW976010, AA224525, N22006, AI273124, W28157, BE908602, AA019115, AA349402, H80006, T32057, BE796439, BE273856, AV745883, AA526787, AW406447, AA984620, AA577127, H55993, AV696428, AU145083, AU147226, AV684596, AU158906, AL537887, N45466, AV691908, AV762220, AI038990, AL040921, F05944, AW600804, BG034591, AA601355, AL036052, AW079809, AW055226, AW962035.

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HP\AX83	94	906066	1 - 3605	15 - 3619	BG170880, BE927964, AW954276, BE927869, BE927822, AW386244, BE927879, BE927863, AW750978, AI630917, BE927870, BF724110, BE927940, BE927963, BE927825, BE927858,

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HOFNG28	95	908746	1 - 1612	15 - 1626	AW961869, BE077141, AW578424, BG255499, BF954315, AI261629, BE077135, AI148063, N36589, AI261572, BF802132, AW937843, AA426509, BF773463, AA432239, AA297161, AI149643, F12840, AW085552, AI261573, AW964755, AA086106, T74733, AU117446, BF155382, AA190566, AI800802, AV721960, AW863367, AW444435, R05875, AA252523, AW964780, AW959892, AI016747, T08225, BF195133, R10564, BG112973, AA312028, AI149199, AI370265, AI299757, BF514106, AI951761, BF765034, BF961480, BF745812, AA339807, BF961798, BF830434, AW381253, AA297204, AA193676, AI361910, AI565510, AI863790, AA252555, AI279364, AI379019, AI300980, AI431499, AI815225, AI364355, AI024659, AI494214, AI802120, AI351937, AI858581, AI864392, BE671413, AW075432, N55650, AW117663, BG057105, AA041199, R10154, AA227453, AA427655, AA424370, AA243514, AI610249, AA041436, AY008763, AL050283, AY008764, AF194031, AK000923, and AF173325.
HOB27	96	911947	1 - 1919	15 - 1933	and AF173325.
HHBHJ45	97	913831	1 - 1633	15 - 1647	BG169391, AW949561, AI310200, BF339286, AI302098, AI654459, BE729449, BE536951, AW968438, BE389695, BF665529, BE277374, AA625808, AA427852, AU154551, AA458825, AU151326, AA428109, AL120902, BF571546, BF222142, AA612971, AU130187, AU126787, AI347584, AI086482, N30370, AU157337, AI271968, W76546, AI688046, W74351, AA807857, BF678409, N95347, H18070, N79725, BF209686, AI347617, AI583445, H09608, AA804327, AA838452, H09609, AA164432, T09029, AW572063, BF337241, AA164431, W76465, BF810348, AI654258, F09074, AA192488, F11408, W72228, W25256, AV686355, AV685242, AW591780, AV698667, AV693138, AV694239, AV684641, AV697086, AA527521, AV693125, AV683176, AV695358, AV685230, AV695077, AA873514, AV684289, AV698337, AV698238, F08059, AV301970, AV691629, T09028, AI308013, AI254516, AI345333, AW301841, AI318573, AW274307, AW302778, AI343199, F04295, AV684299, AW603555, BE778359, AA132390, N62777, T16599, N47046, AW768945, AA459016, AA070813, BF799492, AA133507, AA887062, AA581050, N59845, BE181676, AA873503, AV711509, AL513597, AW301409, BG179993, AL513907, BG104782,

AL121270, BE048071, AW827203, AL045500, BF883916, AV716568, AV682249, BG257535, AW071349, AL514627, AV655645, BG257920, AI349614, AL046849, AI349772, BE018334, BF054789, BG260037, AL515047, AV710479, AV681638, AL514919, AL514791, BE048135, BF969228, AL513693, BE964812, BE047863, AL515041, AV682222, BG252914, AV682849, AV734318, AV758110, BG058208, BF724691, BG114104, AI207510, AW827249, AV723772, AI868831, AW162071, AI064830, BF795712, AV756477, AV729890, BF793187, AI349645, AW268253, BF971016, AL036396, AV758806, AV682476, AL135661, BF679377, AL047042, AL119049, BG036846, AL514935, BG168696, AI433157, AI815383, BF343172, AV723204, BG180996, BF793644, AV681857, AL513803, AL036146, AV717299, AV723062, BF969494, AV711924, BG108147, AL514015, BG110797, AL514691, BF882343, AV733326, AL036802, AV712229, AV715263, AV757096, AV710608, AV756560, BE018711, BG108324, BE964700, AV733397, BF034349, AI433976, AV757639, AW999049, AV681716, AV681630, BG112879, AV682252, AV682330, AV682772, AV758668, BF107573, BG113662, BG109125, BE877769, BG250190, AV682462, AV682792, AW238730, BE881089, AL119791, AV757327, AL121365, BE048319, AI612913, AL514793, AV681668, AV734099, AV681647, AV717179, BG121222, AV755581, AW268768, AV764282, AV760102, AV755668, AI580190, AL120854, AL513943, AV660662, AL514261, AI349598, AV704928, AV682351, AV705644, AV758592, AV681949, AL513631, AV756770, L34600, L37835, I48979, S78214, AF116602, AF116691, AF116644, AF116646, AF090900, AF113691, AF116631, AF130104, AR079032, AL050393, AF116639, AF130105, AL133640, AL117457, L31396, AF090934, AF118064, L31397, Y11587, AL133016, I89947, AF138861, AF113013, AL133606, AF078844, AF130082, AL442072, AL049938, AF130059, AL389978, AF130075, AF113694, AL080060, AF125949, S68736, AF090943, AK026045, AL359596, AX046603, AF118070, AL157431, AL442082, AB048953, A93016, AL050146, AF116688, AF090901, AF104032, AL122050, AF090903, AL117460, AL110196, AL049452, AF218014, AL110221, AL122093, A08916, AF113677, AJ242859, AF113689, AF130092, AR059958, AF111847, AF119878, AF113690, AB041801, AK026865, X84990, AL390167, I89931, U42766, AK026608, AF119875, AX019230, AB049758, AL137527, AL359601, AL050116, AK025339, AB048964, AX019229, AL050149, AF090896, AK026741, AK000212, AB047615, AF113676, AL049314, AL096744, AK025084, AL162006, AB019565, AF113019, AL133557, AL050108, AK025958, AL162083, AF106862, AL133075, AL080137, AF017152, AR011880, Y16645, AF113699, AL049466, A08913, AL359618, AL080124, AF219137, AF158248, AL050277, E03348, AF116649, AL133080, AX006092, AL137283, AF119909, AL389982, AL133093, AK026855, AL137459, AF119899, AJ000937, AL133565, AK026744, AL122123, I48978, AF146568, AL122121, X63574, AK025772, AK026533, AL137557, Y11254, AK026642, AK026452, AK000137, AK027096, AK026784, AL049430, AF111851, AL117394, AK000618, AB052191, E07361, AF271350, A65341, U91329, AL049300, AF125948, AK026542, AF314091, AK000083, AL359941,				
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HHPDV90	98	914163	1 - 1872	15 - 1886	AI811005, AI653359, AI743036, AI568555, AV697280, AA625521, BE048864, BG167806, AI824027, AA401229, BF448652, BF438214, N40011, AA193304, AI130747, AI936637, AI368011, AI080358, AA404268, AW236922, AI275538, AA564363, AI276027, AI624113, AI379074, AI126543, AI275570, AI368003, AA962422, AI191276, AI635306, AI480304, AI492368, W45197, AI333916, W38715, AV702601, AA443016, AI934349, AW960595, AI291511, AA731161, AA488954, AI274931, AA488874, AI582669, AW469885, AA071470, BE079773, AI581645, W38762, AW594009, AI696471, AI383502, N92570, BE646049, AA625343, AI480410, AA613349, AA824555, AI693424, AI096708, AV684337, N27277, AA861317, AA463456, AI796055, AI041748, BE896736, AA335410, AI523346, AI933211, AA194258, AW571434, AI224569, AI868719, AA451885, AA135295, AV683399, CI6240, AA360398, AA257150, BF367469, AW250238, BF515389, AW875802, AA135165, BF927607, AI868703, BE178966, N34385, N42846, AA419446, AA736543, AA584194, AI085242, AA745092, AW613813, BF801143, AC002364, AL353937, AX048063, AF217518, AC008155, AC025593, AC006241, AL049776, AL163194, AC008521, AL109976, AC027319, AF196779, AF265340, AL121926, AC020913, AC010618, AC004999, AC011508, AL356652, AL109825, AC005231, AP001753, Z93784, AC018758, AC002126, AC006160, AL049547, AC004991, AC009247, U89337, U91323, AC008745, AC011455, AC008482, AL450226, AC016554, AC020663, and AA825569.
HWMMQ47	99	915068	1 - 1914	15 - 1928	AU117578, BE747272, BE740691, BF975570, BE791051, BF982819, BF568722, BF663926, BE779854, BE258824, AL534023, AL534024, BF967781, BE253195, BE888979, BE778582, BE252033, BG036978, AV751824, BE883871, BF683473, BE263408, BF307358, BE868436, BE392981, AI804750, BF973051, AU144804, BE298007, BE779716, AU145608, BG000903, BF971699, AI146343, AW027129, AI813831, BE395342, AU144372, BF237544, AI690884, BE786397, AI090031, AA478533, AW268818, BF237818, BE857063, BE296783, AL531481, AW327927, AI378303, BF894721, AA594858, BE256127, AU159188, AA147836, BG054746,

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HBGNY08	100	915214	1 - 416	15 - 430	<p>BE880116, A1052526, BF826007, AW168408, BF828616, BF828602, BF825755, BF337344, AI972366, BE221760, AW291494, AW296202, BE221730, AI659795, AI376244, BE502654, BF061519, AW628280, AW628245, AI250922, AW025770, AI12836, BE881510, BE933447, AI042083, AI621341, AI927233, AI824576, BF125935, AI628284, AI379711, BG114432, AW827289, AW088134, BF813177, AA740450, AW051088, AI589428, BE540578, AI637584, AL515173, AA731026, AV727136, AI633297, AW089006, AV709543, AV726200, AI609375, AI890887, BF812937, AW163834, AW051059, AI432570, AI819202, AW172878, AI537677, BE880341, AI567582, AI474646, BG029829, AW026882, BG251264, AI537643, AA738052, AV681719, AW410259, AW132107, BG178351, AI634682, AI445620, BG257656, AI581139, AI475371, AI421091, AW084056, AI813633, AI934011, AL513823, BE875243, BG029053, AW169001, AI345688, BF997967, BG122594, AW020397, AA732156, AI289791, AI679550, AI250627, AI801325, AI445256, AA088789, AL514267, AV681859, AI680453, AI583578, AL048323, AI698391, BF913616, AL048340, AI625701, AV682450, AW152587, AI249877, AI366922, BE895765, AW081383, BE965330, AI401697, AI687728, AI540674, AI561356, AW162194, AV682366, AW157183, AW827206, AI587606, AI263584, AI936003, F26535, BE963310, BG113299, AI273142, AI536574, AL514455, AI433611, AI458588, AW025279, BG164117, AI826415, AI440238, BF343521, AI890412, AW983832, BF924856, AI471429, BG256592, BE880182, BG117653, BG163353, BE791620, BE536058, BG032036, BE061378, BE877769, AW080746, AW834282, AI799540, BF032910, BF911528, BF822127, AI476076, AL513947, BE874133, AW673679, AI310332, BG122101, BE889355, AW192461, AW074605, AI866820, AL042382, BE965455, AW983829, AL040241, AI800473, BE544111,</p>

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HODGH45	101	917394	I - 929	15 - 943	AW275585, AA489939, AA480561, BF887136, AI285651, BE161469, AW057760, AA648942, AW072963, AI086603, AW630599, BE677227, AL138119, AA280886, R22196, AI038990, AI935827, AI446424, AI754064, AW500532, AA731859, AW855729, AA360082, AI174703, BF792103, AW275640, AI952885, AA425283, AW080062, AW935456, BE967607, BF748493, AA584360, AA330435, AI869406, AV683406, BG231195, AW802912, AI300608, AI183727, BF812696, AA548811, AA489390, BG230829, AW342042, AW963785, AA086391, AW975247, H66812, BE171849, AA345665, BE154761, AA016062, AA370761, AI823395, R43468, AW850089, BF530611, AV695910, BE974200, BF698734, AI623505, AI271693, BF933309, AA551580, AA826079, AU151751, AA018175, AV704185, AW169183, AI028148, AI275989, BF770872, AL043285, AW964164, AA021421, AA640305, AI433262, AW750527, H86246, BF958025, BE154704, AL048969, BF346854, AI274462, BE744372, AL049553, X94359, AC005535, AB032485, AF229986, AB000931, AC004922, AC009362, AL109806, AL158815, AC004835, AC006132, AL035460, S45332, AC002985, AC005000, AC008102, Z92844, AC006166, AL136321, Z79488, AF217403, AF124730, U58047, X69907, AC005251, AL157372, AL008726, AC002477, AC004996, AC002039, AC006115, AP000049, AP000311, AP001718, AL121917, AL080245, AF003626, AC005049, Z98742, AC004000, AC003969, AL162458, AC018663, AC009487, AB023051, AC004643, AC005846, AC005179, AC004650, AJ003147, AC006576, AL136307, AC020934, AC000115, AC010205, AC004811, AC004913, AL160053, AC008403, AF243527, AL353807, AL009181, AL031311, AB040900, AC007249, AL035659, AC009484, AL163249, AL031390, AL133163, AF045555, X84066, AC006317, AC007021, AF060911, AC068499, AL079341, AC020904, AK023361, AP000512, AK026899, AK000252, AC005224, M94634, Z48051, AB004907, AC005944, AC006162, AL050328, AC012442, AL353777, AC006474, AC003688, AC005057, AL034420, AC004148, AP001068, AL445196, AC006137, AC007845, AC004477, AL121653, AL133545, AL139327, U91326, AC006011, AC005154, AL035404, AC011465, AC007879, AC009311, AC005519, AC006376, AC016025, AL137818, AF196779, AC005701, AC008038, AL109804, AC005228, AC004797, AC005409, AC005326, AC004965, AP000221, AL138836, AL353811, Z85995, AC022432, AC073323, U73648, Z99128, AL121890, AC006075, AL139383, AC006121, AC009123, AC006249, AL034380, AL137795, AC004659, Z97206, AL121751, AL031847, AC015550, AC002037, Z69890, Z68287, AC005335, AC004225, AC011491, AC008626, AL118520, AC005962, AC025472, AL133551, AC003101, AC009032, AC005779, AC006388, AC005003, AL008636, Z95116, AC004883, AC004585, AC006455, AL031427, AC007114, AC005098, AC005859, AC005037, AL031280, AC002110, AC000405, AC005546, AC002104, Z99291,

HWLKE58	102	917716	1 - 2567	15 - 2581	AL035420, and AC004907. AW957184, AL520230, AL135399, AL515934, BE618778, BF056891, AL520231, BF966712, AI633878, AW515316, BG032703, BG027920, BE042542, AW088411, BE883723, AL518067, BE218306, BE644805, BF087512, BG054496, AW207435, AW771521, AA902264, AW083012, AI818209, AW105148, AI669659, AW514659, AA126445, BF516057, BE465947, AU152940, AI927938, BF031562, AA310489, AW410334, AW182807, BE465917, BE763696, N21466, AA767314, AI420205, AA054496, AA938728, AI493810, AW771502, AI743602, AW675411, AI090291, AI283114, D81907, AI417561, AA427677, N66098, AA043792, AA573278, AA427532, AA431514, AI752320, AI819645, W19853, AA186486, BG003474, W00707, AI278309, BE349516, AA292620, AI366801, AA058340, AW512566, AA349431, AA973972, AI434568, AA349432, BE221654, BF104164, N62707, AI631297, AA766576, AA345941, AA588743, AW189042, AA724174, AW089555, BF432696, AA187281, AI638738, AI678159, N98699, AI440413, AI917203, C02522, AA829470, AA431188, AI332895, AA653570, C00128, BF998349, AI702887, T40865, AA970774, D79887, AI753861, AA766639, AI752319, D78858, AA809488, AA360504, AI962149, AI440138, AA456027, BF352331, T39804, D62361, AW149169, AW089455, T39783, BE618245, AA328062, AI220712, AI925346, H83314, AI668846, T40872, D78824, AI932606, R77568, BE782129, AI587187, N90043, D61745, N78427, AA300827, AA174177, AA350598, AA043666, R61473, BF089446, AW514435, AA126569, BF089445, BE536123, AA329088, AW796219, AW796258, AA455387, AA292619, AA096434, BF570490, AI624981, AI749472, BF837084, BF838288, AW275782, AW275777, AA704575, AW089135, BE940131, BE163882, BE163878, BF090691, AA348799, AK023143, T39879, and T39889.
HRADL40	103	919433	1 - 1047	15 - 1061	AL523954, AI057097, BE737274, AI740479, BF972939, BE792858, AI797405, BE250379, BE409256, AI418377, BE513939, BG032129, BE734267, BG167040, AI814639, AI817600, AI743696, AW268351, BE563371, AI889412, BF970634, AI623409, BE409777, BE268371, AW612995, BE250540, AW105242, BE464854, AW117856, AW272529, AI745423, BG059988, AI520744, BE407785, AI802882, AW951521, AU151633, AA988074, AA587623, AI864929, AI091730, AI766700, BE299112, BG165794, BE785114, AI382349, AI827080, AI056586, BE387632, AW083461, AI168189, AU129529, AW188543, AI962116, BE789666, AI880229, AI868331, AI338997, AA157276, AW002329, AA258412, AI364317, AW204445, AW197889, AA449331, BF826010, AI564865, AA775328, AW196304, R84307, AA988067, AW473206, AW249890, AA858029, AI480058, AA157315, BG036425, AA192986, BE940591, AA302199, BF109749, AI261917, H08847, T29752, AI742031, AV744823, AW197790, AW197780, AA364515, AA157347, BE205948, AI193424, AA405800, AW243173, AA135269, AA135188, AW250551, AA846661, AA192649, AI760066, AA601382, BF797658, AL036368, AA157251, Z25820, L24774, Z25823, Z25824, Z25821, AC007162, AC005212, Z25822, and U80735.

HOFMP73	104	919895	1 - 2026	15 - 2040	<p>AL534904, AL532610, AL516508, AL518341, AL537853, AL535425, AL536043, BE779892, BE742082, BF342824, BF689584, BE728130, BG036052, BE616486, BE908269, BE263125, BF342337, BE901909, BE744162, AW239327, BE744723, BF314677, BE740545, BE312905, AI909673, BE892672, BF038574, BE741530, BE737150, BF312905, BE616822, BF032371, AW966195, AV683435, BG119309, BF037944, BF314356, BE735054, BE747683, BE907163, BE735491, BF311641, BE260982, BE271649, BE743218, BE736799, BE261948, BE279316, BE313251, BE742646, BE272420, BE336884, BF690789, BE871599, BF689557, BG260726, BE612361, BE737259, BG113153, BE892856, BE281294, AV706514, BF315657, BE898510, BF689643, BF316842, BE261398, BG036139, BF725733, BE939964, BE313385, BE260757, BF525729, BE788732, BE622344, BE742327, BF724840, BE386718, AA037208, AW996326, BE741341, AW160971, BF351816, BF930665, BF976960, BG117567, AV653871, BF984362, BF317414, AW393167, BF691819, BE168310, BG035435, BG252355, BF571880, AA179450, BG119955, AA428750, BE256703, AW390219, BE179920, R91114, AV728232, AI907139, BF087769, AW804565, AI142132, AV647759, AI142136, BF755012, AV723986, AF062716, R52199, AV646258, BE785514, BE260283, AW838307, BE908603, BE174669, BG118190, AV696733, AA082368, BE174445, AA372215, AA337535, AW368737, AV725049, AV658276, AW948691, AW368840, AW948696, BF037070, AV733360, BG121951, BE698728, AA788902, AA559314, BE259919, AA385829, BF341835, BG118704, AA337949, AA360462, AW948698, BF930434, BF923596, AA376841, BE172795, AV692780, AA362386, BE173127, BF913320, AW068069, BF692127, AW068800, BF803377, T71996, BE173259, AA305777, AW948694, AV708415, W32145, AV709872, BE167028, AW385218, BF081248, AA337859, BF351796, BF844572, AW947386, AA339979, AA379722, AA853192, BF830253, BF907280, BE172880, AA336721, BF032429, BE839327, BE772910, BE772907, BE839310, BE841076, AA337414, AA361134, BE772895, BE839302, BE772893, BE772902, AW450427, BE841048, BE839324, BE772901, AA307018, AA357376, AA360603, BF830142, AV734812, BE170712, BF761106, BE839315, AV648046, BF229791, L16510, M14221, AF285442, AX013195, M13230, Y18460, L22569, L04859, AJ010277, AF044323, AF078844, Z97214, AR050959, X75295, AL137711, AF274348, AF274347, AB052191, AF118094, S82852, AL353940, AB048913, AL133084, AB047947, S83440, X93328, AF032666, U92992, AR068466, AF171061, AF013214, X66871, AF159148, AL050172, AB050431, AK027116, X62580, E12580, I09499, AB051158, AL389935, AL121952, X98066, AK026885, AL137459, AF126488, AK024747, AF090901, AL136984, AK026642, AF116609, S73498, AL080148, AK025350, I17544, AK000250, AR038854, U62807, A08912, AL355719, U95114, X06146, A08911, AL133665, U89906, AK024594, AB048919, AK025632, AK025658, AK026570, AF139986, AL110222, E02221, AL096728, AL161802, AF130104, AF116691, AF119336, X66862, AF098484, AF218006, AL389947, S76508, U72621, AR064250, U96074, AL137461, AF007142, E12806, E01812, AF113222, AF195092, U42766, J05277, X72889, AB020592,</p>
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HOFMS02	105	920253	1 - 374	15 - 388	<p>AA076264, AA085092, AA080989, AA063334, AA075694, AA084890, AA069099, AA084855, AA084814, AA078759, AA083056, AA083017, AA074846, AA070575, AA069969, AA082755, AA075614, AA075818, AA100017, AA070377, AA070995, AA065075, AA113255, AA070965, AA070321, AA075784, AA075592, AA085065, AA134716, AF093677, L07095, V00711, AB042523, AB042524, AB042809, AB042432, AB049357, L07096, and I62858.</p>
HUVHD12	106	921707	1 - 2708	15 - 2722	<p>BE729461, BF795181, BG108619, BF309103, BE733125, BF027564, BF309068, BE296065, BE281099, BE298511, AW410246, AW409779, BF526623, BF308487, BE298767, AW271999, BE299141, BE298938, AW070334, BF309208, A1810901, BE221973, A1693910, AA029642, A1435095, BE388330, A1765687, AW510727, AW470549, A1862580, A1394548, A1972685, BF589734, N98473, BE223075, BF475345, BF434507, BG059921, A1809960, A1762024, BE779192, AW073339, BF221682, BE856254, BE044436, AW410326, A1763319, AA029710, BE302520, BE465271, A1701495, A1017268, A1799592, A1401766, A1392786, BF308873, BE270326, AW131646, BE390072, AW593466, A1371702, A1638231, A1655706, BF939266, A1369175, AW409726, A1204980, BF308645, BE859057, BF593536, BE205950, AW663740, A1360022, A1278134, AA632035, AA039563, BF056862, A1570638, A1204500, A1362875, BE294172, A1340928, AW294855, A1424041, BF196199, AW237311, A1459219, A1766885, AW016416, A1203132, AA504431, BE551227, AA447758, BF111136, A1910708, N57532, A1767238, A1421493, BG231658, BF740107, W56299, AA279292, W55871, AA845967, A1340930, W76092, A1870442, N49400, N66084, A1051272, R49397, AA834166, N92406, W61301, A977863, AA279270, AA453689, N49489, BE279899, AA039564, N51462, BG054588, R73170, AA911075, BF475817, BF851978, AA769921, A1378019, BF224168, A1928755, AA379570, AW269014, AW592153, A1886020, BE044396, BF852201, T47196, BF852157, T90531, BE081267, AA300798, AA323087, H69590, A1653392, W72845, AA323218, BF054948, BF111142, T83066, W24631, BF924523, BG149504, A1886244, W65365, BE075405, W24197, A1354659, A1419610, T81327, BF917322, N79047, A1880342, AW449928, BE218696, N46989, A1419132, BE219972, BF304931, AA504197, BE299549, A1370420, A1651959, R02389, Z42404, Z38611, AA676675, N53602, A1350904, BF205597,</p>



HMVDQ41	107	922191	1 - 1980	15 - 1994	T15353, BE828535, AL445192, AB037836, and AX018071. BE908874, AA403039, AA772356, AA890039, AA706235, AI796685, AW958911, W56103, AA639769, AA707393, AI971384, AI400642, BE349391, AI419056, AA931654, AI074056, AA725449, AW752569, AI278287, AI051080, AA934509, AI056195, AI827412, AA291642, AA252870, AI278795, AI077777, AI344740, AA855074, AA287208, N99681, AA625359, AA707796, AI085793, AA910676, AI375275, AI277706, AA968653, AA482049, AI040845, AA004744, W56146, AA128102, AI038120, AA926651, AI808622, W42934, AI241340, AI419232, AA938251, AA481865, BF939403, N62191, AI350660, AA846421, BE174045, AA928335, AA987944, AA805065, AA325681, AI188852, AI266586, AA401330, AI022609, W37593, AI459456, AA514539, AA480369, AA938533, AA694474, AA694542, AA642598, AI085080, R55037, BF885412, AI719065, AI022981, R36922, AI868718, N94983, AW204000, H62802, AA284488, AA125812, H62716, H41118, AA639530, T49454, T49455, BF772108, AV698354, AW847806, H42251, T36167, AI350924, AA782685, AA252893, AI051453, R10302, AA214099, W86591, N76488, H42250, N59273, BE165692, AA781103, BF985470, AI191721, AA680383, H22403, R10303, N71946, W19456, BE142862, AA977361, H22370, W42869, BF935739, R55145, W37488, BF942272, BF942336, AI309601, R10631, R10632, N76744, AA213991, BF929098, T24749, AA725118, AW753876, R55007, AA090452, BE146939, BF772122, AI247921, AW028468, BF939755, AI084241, BE348377, BF991587, H58310, AW058434, BF947830, BF991716, BF947297, BF991604, BF943751, BF947310, AW839223, BE075398, BF764247, BF846830, AL137496, AF303378, AF300796, I76236, I76219, AC023790, AL117345, AC005373, AC010326, AC006584, AF111168, AC010205, V00589, X57170, AC007182, AC007221, AB019437, X06789, AL133472, J00063, AF193582, AF193580, AF193585, AC007954, AF193581, AF193586, AF193587, X71804, AF193590, AC006449, X83747, X83748, AF193588, AF193591, X71799, X71800, X71797, X71802, AC026704, M10817, AC005409, X83746, X12811, AL109797, AL158824, AF193592, X12622, X16851, X58365, AC004787, AC007131, AB015590, X04309, AL162718, AF099810, AC005284, AL138976, V00647, L49397, X58368, M35175, X04308, K01374, X58367, M74438, X83749, X63147, J01861, M13919, M13920, AL135978, K01537, X63146, X63145, V01426, J01009, AC007955, AJ245808, AJ242468, AL050331, X56635, X56631, X63148, AJ237911, V00648, S73106, X56637, M13375, X56632, AF284748, AB001499, AP000350, AF284747, X56636, K03511, K03510, AB001495, AF250529, AB001492, AB001493, AB001494, AB001498, AB001503, M13921, X05867, AF250528, AB001501, M18680, AL031658, AC006120, and S73107.
HODGI03	108	922879	1 - 216	15 - 230	
HODHD14	109	922955	1 - 734	15 - 748	AI670994, AA457520, AW008614, AA284465, AU147140, AA834633, W91945, BE879668, BE382371, AA179361, BF841870, AI221804, AL034369, AC008468, AC007394, AC006079, AF003528, AC006231, U96409, AL049834, AL132671, AL121875, AL049594, AC005274,

					AP001538, AL137787, AF022141, AL023693, AP001674, AC002478, AL008627, AL118508, AL161892, Z93015, AL445490, AL157359, AP001724, AJ229041, AL033397, AC005857, AC005226, AC004460, AL445143, AC010389, AF245226, AC011294, AP001693, AC068919, AC020549, AF109076, AC004237, and AC010223.
HODDC03	110	925296	1 - 528	15 - 542	AC009329, and AC020581.
HVCAG04	111	925735	1 - 1594	15 - 1608	AI936826, BE271770, BE385990, AW149665, AW590950, AI990500, BF126050, BF432379, BE392412, BF439382, BE395797, BF125134, AI884686, BE395581, AI742092, BE858216, AW150789, BF939693, BF594242, AI859538, BE378674, BE350014, AI018769, AW338938, BF726459, AI336858, AW075598, AW148557, AI423162, AI363261, AI150931, AI459805, BE395206, AI765236, AW954549, AI391683, AW191974, AI202043, AA173383, AA626797, AW087372, AW075549, R11723, AI937602, AA084249, AA419229, AI566797, AA419214, AA613995, H17965, AV725028, AI499630, AI272281, AA084248, BF054837, BF054680, AA075710, AA075743, AI263480, BG057775, AW771806, AI869176, AA834860, AW128849, AA780222, AA970361, AA574173, R17696, BF935708, AA75244, AA827444, AI969011, AA706146, AA665640, BF726644, AA173739, AI480207, AA496806, H06707, BF508715, AA082074, R14544, AW768971, H17189, AA349894, R43737, AV717094, R41205, AV727120, BF219218, R20352, AA776783, AI767459, AV747689, AI141302, BE386060, AI421975, H06756, AI582720, AI054234, AA582576, BE041936, AI140655, BE746601, BE736301, BF345141, AI299246, BE899287, AI138793, AW014802, BF477409, BF432690, BF125664, AA349893, AI817194, BE827461, AA102212, AA620332, BE858655, BF347279, AA960903, AA994321, AI266676, and AF034633.
HCRCE02	112	925837	1 - 1551	15 - 1565	AW082702, AW182938, N76185, AI760396, AW058256, BF939004, AW890838, BF438133, AI800552, AA996239, AA774721, N39067, AA984011, AI094521, AA456754, AA573698, N95736, N63430, N64772, AA836623, AW890829, T56007, H28396, N48422, H28371, and Z82254.
HHERA91	113	926067	1 - 2542	15 - 2556	AU124593, BF305985, BE793458, AW411525, BE746024, AW411524, BE745264, BF792014, AW845240, BE378421, BE272083, BG036629, BE273980, AV684577, BF340012, BE873767, BF033645, BF984116, BF980548, BF306936, BE780737, BF436316, BF968051, BE392778, AU148420, BE777873, BF970020, BG254594, AV707425, BE898179, BF969458, AA442297, BF307860, BE176556, AI921390, AW083114, AI432643, BE857417, BE908252, AA434090, AW135378, AI907299, AW129697, AI907302, AI559576, BF306438, AW088122, AA577937, BF855709, BG114638, BG005738, AA437232, BF196470, BF850283, BE905441, BF803784, AA558517, AI952737, AW848212, BF810009, BE076517, BF804862, AW020932, AA434362, AA357638, BE272724, BF741455, BF933621, AI834236, AI653899, BF837849, BF964440, AA479851, BG011157, H53665, AI674310, BF741442, BF799562, AA496510, AA853878, BF033991, BG170573, AW292697, BE396149, AA428249, AA477491, AW973725, BF807612, H53626, BF968611, C01952, N41205, AA430740, BG222431, BF765880.

HAGDL82	114	928396	1 - 1864	15 - 1878	<p>           AJ277437, AK022597, and AK000530.            BF038718, AI052255, AI627552, BF433190, AA890036, AW467145, BF513360, AA679966,            BE567783, AA932501, AI655727, N95443, AW613958, HI5351, AI308231, AA678372,            BE567435, AA861702, AW661963, AW661972, AA844485, AA768243, W69720, W69848,            AI025683, N42789, N69505, AI271962, AI953406, AA398963, W24323, AI004883,            AA564406, N31480, AW296874, N76230, HI1150, AA005413, AA398826, AI770002,            AI061173, AI147037, R39153, AW859636, AW859227, Z45949, N54527, AI672289,            BF671244, HI1062, AA661956, AW970819, R14035, Z41567, AA005414, BF095740,            BF095666, BE774830, R01400, AA811935, HI5726, AI080087, R01399, AI611688,            AA491284, AA582554, AA121777, AI079910, AI569086, AI888441, AI298710, AA468923,            AA593471, AA565426, AI733856, AI285696, AI040051, AA332989, AI471691, BF842195,            BF337291, AA346586, AW327624, AI160117, AA678436, AA302970, AV763538, AI917132,            AA191418, T15897, AL035455, AL049985, AC016831, AC004543, AF017104, AL139182,            AF200465, AP000963, AC009294, AF205588, AC074331, AC007386, AL136305, AL122001,            AL035451, AC004965, AI229041, AL109919, AL133238, AP001732, AC007405, AL049696,            AP001696, AC020898, AL078462, AP001601, AL117337, AB042031, AL121897, U89335,            AL353739, AP000472, AC008534, AP002529, AC006195, AC007390, AC007376, Z97985,            AC018897, AC006479, AC009493, AP001683, AC007364, AL117187, AP001698, AC005772,            AF015720, AL021939, AL356503, AC020655, AL133355, AL078593, AC064878, AL139395,            AP002533, AC007221, AC004804, AL049643, AC007545, AC009223, AL135839, AC002525,            AC007388, Z84470, AC009179, AL136084, AL121578, AC005899, AC004385, AC005911,            AP001712, AC006197, AL022310, AP001706, AP000518, AL049712, AF107258, AC005066,            AC004547, AC005701, AL080317, AL031733, AL163268, AL354872, AL391374, AP001697,            AL359704, AL137067, AC007842, AP001669, AL136139, AL160033, AF003529, AL031985,            AC007157, Z97181, AC006144, AC069298, AC005326, AP001328, AC007077, AC004655,            AL391986, AP001700, AL021528, AC008896, Z70272, AL354720, AC007316, AC007102,            AL161804, AL050335, AC007653, AC007528, AP001677, AL133284, AL049588, AL117333,            AC009468, AC024162, AL122057, AF188025, AL049759, AC009406, AC083863, AB020868,            AL445188, AL136300, AC009470, AC004817, AC011248, AL109828, AC007907, AC004865,            AC025765, AL160191, AC069026, AC008842, AL135744, AC004867, AL022717, AL121757,            AL138958, AL121583, AL445604, AC010596, AL121919, AC011890, AF027390, AC010363,            AC006019, AP000466, AF265340, AC005324, AC007790, AE000660, AC010165, AC007597,            AC007563, AL035458, AL022719, AL022165, AC005822, AC002288, AL132718, AP002898,            AC011452, AL122002, AL137143, AC008074, AC002086, AC026197, AC002472, AC022013,            AL031768, AC019171, AL049709, AL050310, AC002422, AC005071, AL132773, AL109801,            AP001672, AC007050, AP000355, AL137851, AC004047, AP001694, AL389983, AL157413,            AC008071, AL117338, AC009506, AC027689, AC000003, AL121593, AC004103, AL050307,         </p>
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HWBDS34	115	930484	1 - 3044	15 - 3058	AU130359, AU118385, AU130640, AU127870, AU127056, AU128471, AU129803, BE886921, AW188126, BE889704, AU128544, AI114658, AA779297, AI936493, AW188141, AL045312, AI553970, BF002279, BF671616, BF061427, AI139399, AA406422, AW151544, AI150128, AA194584, AW131406, AL047872, AI087327, AI004128, AA887912, BE708344, AI801388, AA010422, AA194501, AI500467, R66419, BE150925, AU117686, H83852, AA973155, H08158, AI910805, H83831, R01915, T75488, AA058677, AA471337, Z41823, AA774580, AA010394, BE041711, T75527, R52813, AI000146, AA214136, AW014661, AI910431, AI798347, R57531, F03794, AA213958, R01963, BE838102, BE707063, BE706963, T86495, R52845, BF110371, AK027051, and D87466.
H6ESA39	116	933568	1 - 1250	15 - 1264	BF033707, BG116039, AI820052, AI399661, BF940969, AW188045, T26603, AI674067, AI091805, AA477591, AA480288, AI218039, AI300906, AW978872, N71816, AI936066, AI245622, AW194052, AA291409, AA639600, AA778322, BG057053, AI334794, BF732599, AI378435, AI201307, AA918657, AW102947, H01857, AA861142, AI352598, AA302632, AA992931, AI360566, AA931399, AA847869, AW967258, AW081519, AI869896, H01858, AI698735, AA403312, AA936581, AA972408, AI025530, AA143416, AA781469, AW341711, AW003441, R46670, AA613528, AA757047, Z92544, and AI391671.
HPCOR06	117	933678	1 - 457	15 - 471	AA455081, AI263465, BF912280, BF912197, BF912198, AC004980, AL109626, AC006031, AC008774, Z83819, AL445590, AE000659, AC026188, AF003529, AL133328, AC023478, and AC034195.
HTFNO06	118	933989	1 - 909	15 - 923	BF684524, BF340318, BG107767, BF681126, AA497123, BE250611, BF673679, AI925369, BE778532, BE250414, AA497045, AI193675, AI125248, AW301040, AA001314, AA063616, BF109644, BF516348, AA039474, AA039475, N91255, AW630056, AW613821, AI991147, AW970517, AI306650, AI128891, AW627576, AW515210, N92376, BF446911, AA781865, AW007579, AA467823, AW630816, AA938705, AA706012, AA467879, AI695530, AA040221, AA831695, AA541653, W73974, AA872459, W72343, AW103804, BE076374, BF331452, AW605476, AA001684, N26202, D31084, AI245152, W19909, BE932204, AI583969, AI672730, AI707545, AA551882, AA578108, AW088337, AA036698, AI365605, BE841269, AA578193, BF931099, AW605475, BG153138, W24618, C02159, W04846, AW975002, AW979204, AW975037, AW976024, AW975942, AW975965, AW971975, AW972845, AW979127, AW972292, AW975032, AW979238, AW975031, AW975628, AW971403, AW976023, AW971404, AW975105, AW969680, AW979208, AW974801, AW975954, AW971968, AW969839, AW972721, AW969885, AW975952, AW974998, AW969791, AW975930, AW974786, AW970942, AW971732, AW975876, AW969673, AW979098, AW973219, AW971375, AW973254, AW979090, AW979106, AW979176,

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HODFY08	119	935520	1 - 456	15 - 470	AA747608, AW975995, AA256200, AI431918, AW886025, BF965611, AI621212, AW867016, AV645418, AI436124, BE048562, AW898294, AW880127, AW880440, BE081675, AW997462, AW880432, AW880266, AW946173, AW880359, BE170427, AW880049, AA228900, AW862989, AW899139, AA558500, AW796080, BE816601, BE010148, AW996482, AA640849, BG057615, AW996413, AW893101, BE816610, BE170365, AW270207, BE000410, AA501690, BE827577, AA721598, AW237896, BE181299, AW237940, AW996346, BE088714, AW795108, AA501719, AA557437, AA910096, AW063981, BE170597, AA503566, AW275631, AA259218, AW996170, BE091646, AW899295, BE082424, BE835169, AW946231, AW996655, AA640998, BE826780, AA713882, BE082418, BE826740, BF332416, BE091167, AW866936, BE082383, AW887658, AW894357, AW946277, AA715611, BG059116, BE089449, BE826743, BE170594, BE826769, AA613748, AA658572, AW880433, AA225819, AW946266, AW238729, BE835200, BE835202, BE082440, BE080195, AW865798, BE079906, BE079912, AW865618, AW880070, BE082419, BE082423, AW880128, BE082437, BE827556, BE816607, AW868862, BF478324, AA226655, AW796081, AA632977, BE168364, AA558278, BE699508, AW894540, BE816614, AA170820, AW884606, AW892161, BE089273, BE816615, BE183896, AW821605, BE007276, BE089602, BE184051, AA650193, BE082421,

HRACK27	120	935717	1 - 2723	15 - 2737	BE835160, BE089293, AW903394, BE089284, BE083828, BE826770, BE089287, BE163413, BE826782, BE835197, AW866656, BE826771, BF735344, AW887483, AW893432, AC006020, AL049780, AC007055, and AL132855. AI797673, BF222825, AI638276, BE784408, AV684863, BF217945, AV712945, BF185949, BE707564, AI983071, AW300244, BF949779, BE502956, BF674065, AA999982, BF572901, AI379012, AW237408, BF512700, BE671433, BE221745, AI439170, AI634105, AA256584, AI672401, AA904964, AI742625, AI925484, AW129743, N45400, AA570413, R17726, R20014, BF593101, H50174, AI287883, AI478134, AW183869, AA629865, AI984609, AI760492, AA126804, AI979187, AA256541, AA400198, AI287866, BE044058, BF954310, AA353809, AL040798, N32088, R14618, AW087798, AA687346, AI949879, AI262174, AI927259, AI912920, AA262622, BE771761, BF590031, AA935907, AI927253, H50126, BF886641, R44828, BF886649, BF957504, AI370543, AW381072, AA400357, AI193434, AI470872, AI473255, AA856870, AB037795, AL133045, AB050258, and D16989.
HRACW30	121	940639	1 - 1092	15 - 1106	BF976230, BF976543, BF663472, BF976289, AV695127, BF976253, BF663527, BF976434, BF664290, BF975568, BF975451, BF976042, AV703739, BF663671, BF662874, BF975121, AV734840, BF129120, AW575927, BF128686, AW406521, BF664479, BF673606, AW604752, AV651251, AV712126, BF106245, AV683248, AV702504, BF976443, AV682465, AV711839, BF976623, AV696029, AW406562, AV696611, BF663521, AV700457, AV700525, AV696032, AV646747, BF663670, BF663052, AW575963, AV688963, AW950221, BF975235, AW575415, AW575346, BF106080, AV646708, AW575364, AV733319, BF97505, AV733390, BF663197, BF681319, BF663098, BF664317, AW404714, AV686096, AV683109, AA522693, BF526853, AW864112, AW961249, AV651284, BF974584, BF087519, BF663982, BF664384, AW604755, BF663385, AV694333, AW951137, BF340407, BF975821, AI354387, AW406081, BF976602, AW383594, AW379839, AI569037, AW369231, AW406564, BF795850, AW574924, AI921456, BF976146, BF106352, BF976244, AV653568, AV705457, BF976259, BF375248, AW605034, AW380142, AW964425, AV734918, AW576109, BF878285, BE149494, AI432569, AV720327, BF663826, AI694098, BE711071, AI208910, BF881717, AV688287, AI355534, BG107363, BF976425, AW856063, AI254719, BF878299, AV687177, AW582319, BF337917, BF976649, AV698744, BF869617, AW405980, BF883209, BF829419, AW404417, AI990966, BF128841, BF106055, AW383598, BF795261, BF810843, AI250870, AW405817, AV681466, BF870064, AI749799, BF663663, BF105950, BF812159, BE932420, AW383602, BE939490, AI347602, AW383450, BF128587, BF878293, BF976618, AW383597, BF883316, T58152, T893330, BF878296, AW405753, AW793702, AV692938, AV734331, BF829413, AW383454, AV734312, AV690568, AW383452, BF842477, BF664084, BE064617, AW794639, AV682898, AW383536, AV690475, AW383539, AW383625, AW864088, AW382758, AW391263, AW383549, BF829086, BF828085, AW383591, AI9333674, AW406495, BF337912,

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HOF0C32	122	941969	1 - 1883	15 - 1897	<p>AL532432, AL532431, AU132058, BE798843, AU139276, AU119208, AU138608, BE779199, AL042862, BE619080, BE619600, AU137132, AU138251, AU139095, BE736021, AU139250, BE736975, BG166907, AV702693, AU135166, BF680307, BF724892, BG032973, BF694955, AU117328, AV699036, AL080042, BF338982, AV699058, AV683938, W02541, BF126282, BE439809, BF377282, BE047356, AA410911, AW374122, AV691776, BF762187, AW957493, AV687261, AW629925, BG252180, BF762186, BF367040, AL535766, AW899940, BF951967, AA053196, W45135, BE831552, N24471, BE545515, AV654362, AA813270, AW892301, BF356093, BF855109, AI459881, AV763974, AA336819, AA373756, T83705, AI669408, R96269, BE246428, N73356, BE677673, BE241862, Z18911, N39900, AA345382, AA090019, BF996474, R17144, H99188, AW615320, BG010667, AA294859, AA089600, H04517, BF376026, BG236821, H23366, BF889430, AW390191, BF061792, BF968205, AL046849, AI613017, BG058208, BF882343, AV727776, BG110684, AW059837, AI249257, BE781369, AL040243, AI633419, AI828731, AW129202, AI284020, AI273142, BF970449, AW196141, AI554484, AI912866, AI702406, AI445165, AI702433, BG164371, BE047952, AI872711, AI568870, AI952360, AW118512, AW131954, AI612920, AI349933, AI690312, AI570384, BF724691, AW071417, AW002342, AI569616, AI475451, AI799199, AW082040, AW169671, BG179993, AI610756, AI866002, AI433976, AW132034, AI678302, AI499463, AI610645, AI636445, AL043326, AI811344, AI571551, AL120854, BF055737, BG031664, AI224992, AI554427, BE963918, AI636719, AI539153, AI269696, AW071349, AI868831, BF792469, AI498579, AI590120, AI922901, BF795712, BF344652, AI349772, AI648684, BE964700, BE964812, AI857296, AI537677, AI539771, AW301409, BF812933, AI866608, AI866100, AI269862, BF343172, BF341801, AI308032, AI862144, BE544111, AI440239, AV732936, BG180034, AI612759, AI491852, AV735353, AL045266, AI273048, AF112227, AF153979, U49188, AK026045, I48979, AF219137, AL133640, I89947, S68736, A93016, I89931, AF218014, L31396, L31397, AF113676, AF125949, AF104032, AF090903, E03348, AX019230, AK026855, A08916, AL133093, AL389978, AF116644, AF158248, A08913, AL133565, AL359596, AF116649, AF116639, AF113013, AK026865, AF078844, AF130082, AL050393, AX046603, AK026741, AX019229, X84990, AL133557, AF116602, AF116646,</p>

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HTTDM15	123	942511	1 - 1895	15 - 1909	BE883532, BG107414, BF314540, BE898459, BE746984, BE542496, AW958579, BF573504, BE734208, AU125474, AW953779, AW292502, AI802426, AU149129, BF575571, BG031927, AA436628, AU150986, AA076658, AA046746, BF081743, AA046670, AW294732, BF095716, AW673051, AW601449, AW601455, AI601235, H66950, H66951, R85537, AA363520, R40736, AI202299, BE092409, AA363830, BF085875, AV749014, AW190087, AA808657, T98596, AW896216, T98595, AA355808, AI910194, AA079565, AW377204, AW377198, AW377106, BE699057, AW377170, AW752839, AW362224, AI223245, BE186054, BE832662, AW579894, AW579890, BE876022, AW377180, AB007866, and AL109823.
HOVAY63	124	944031	1 - 729	15 - 743	R32912, R32812, and AL022725.
HDPFY41	125	946502	1 - 2106	15 - 2120	AL042656, BF982270, BF678765, BF095732, AW971745, AV681512, AV681529, AV681509, AV681500, AV681492, AV645393, AV645392, AV645390, AV645385, AV681526,

AV645336, AV645317, AV681507, AV681465, AV681525, AV681495, AV681505, AV681502, AV681504, AV681486, AV681483, AV681464, AV681462, AV681487, AV681506, AV681523, AV681519, AV681497, AW812618, AV681471, BF095731, AV681513, AV645338, AV645401, AV645332, AV645383, AV645377, AV645379, AV645389, AV645369, AV645380, AV645321, AV681527, AV681501, AV645400, AV645404, AV645353, AV681458, AV645334, AV681510, AV681528, AV681474, AV681514, AV645339, AV681477, AV681491, AV681472, AV681475, AV681488, BE613349, BE612945, BE622828, BE613070, BE614237, BE614307, BE613136, BE622931, BE621911, BE614230, BE622925, BE618811, BE622868, BE620742, AV681461, BE614451, BF679682, AV645350, AV645344, BE620756, AV681531, AV681468, Z99396, AW861944, AW804686, AW392670, BE695785, AL119341, U46341, AW604723, AW877209, AW372827, AW858526, AW577135, BE705903, BF868697, AW858525, BE705906, AW384394, AW861889, AW858455, AW363220, AL119457, AL119497, AL119355, AL119319, AL119324, AL119363, AL119443, U46346, U46351, AL119484, AL119391, AL119444, AL134902, U46350, U46347, U46349, AL134533, BE705905, AL119483, AL119396, AL119335, AW861954, AL134528, AW604726, BF868687, AL119439, BF868684, AL042433, AL119522, AL119399, BE705904, AL134920, AL037205, AL119496, AL119401, U46345, AL134536, AI142132, AL119418, AL042450, AL042614, AL134525, AL134538, AI142131, AL119464, AB033091, AL050294, AB051127, AR080280, I25027, AR054109, I44515, I26928, I26930, I26927, I25041, AR069374, AR069375, I44516, AR091518, AX009487, AR035224, AR009152, AR009151, AR093392, AR093383, AR093384, I85513, AR027099, I05393, AI0617, AR028792, A94046, A94054, A01324, A01323, AR034783, AX030966, I63120, AR067733, AX009486, AX029455, AR064322, AR064323, AR064320, AR064321, A94048, A94061, AX027785, AR038307, AR038321, A49045, I05430, A83642, A83643, AX035462, AX003194, A70359, A32110, AR083151, AR019094, A92666, A92668, I49890, A92667, A92665, AR028791, AR028793, AX032758, AR018924, AR018923, AR000006, AR015960, AR015961, A48774, A48775, AR000007, AR051652, AR091393, AX008865, AX008867, AX008868, A92081, A92080, A92077, A92078, A92079, AX030369, AX030368, AR069413, AX033488, AX033489, AX033490, AX033474, AX033486, AX033487, A91752, A91751, AR069417, AX036660, AX036661, AR068508, AR068510, AR068509, AR091571, AR085090, AR003585, I58322, I58323, A85308, A91754, AX026821, A63067, A51047, A63064, AX044426, AX044425, A63072, AR031375, AR068507, A60213, AR068506, AX046332, AR062871, AX001323, A44171, AX027908, AX027904, AX027906, A49700, A60207, A60208, A58521, AX001324, AR068550, A23373, AR068551, I58669, A29109, A32111, AX004550, AR031374, I07209, I07249, A63954, AX026820, AR019098, AR051651, AR019097, AR020199, AR020200, AR001287, AR020198, AR020197, AR029418, AR067734, AR067731, AR067732, AR029417, I89986, AX024906, AR085093, AR051957, I09121,					
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HCOPB92	126	948608	1 - 466	15 - 480	Y14971, AR019096, A93444, A46342, A46343, AB026436, AR055065, AX046357, AX040911, AR054110, A30600, AR032878, AR055066, AJ251859, AX030435, A81671, AR066494, AR060234, AJ279014, and AR069079.
HBJHO83	127	948708	1 - 963	15 - 977	AC000120. AW139587, AW206289, BF439266, AI418005, AA196170, AV721569, AI493150, AI539840, AA827263, BF525553, AA342835, AV723060, AL135079, AA992466, R84740, AA018860, AA889455, AI032948, AI086195, H05897, AA136660, AI052553, AA335442, R96455, AW341838, R96454, AI204085, AW277153, AI004047, BG253018, AI916309, BE219764, BF439900, AI123630, AW339238, AA521073, AI144557, AA935749, AW207577, AI269030, AW513165, AW611961, AI554132, BF335547, AW604457, AA777781, AA946701, AW604440, AI184875, AW578528, BF945235, AW205588, AV720037, AW373059, AW373058, BE706100, BG026120, AC007276, AC009276, AC007887, AC020910, AC008760, AC022143, AC008747, AL117337, AF205588, AL050308, Z98950, AF030453, AC005088, AL110162, AC005919, AC003682, AC009196, AC011449, AC007793, AP001748, AP001630, AL356234, AC022150, AC005229, AL031432, AK022963, AL031846, AC006987, AL031602, AC008969, and AA583226.
HWMEO44	128	948719	1 - 3170	15 - 3184	AUI37551, BE395366, AI304317, AW873045, AI860936, BF055055, AI394148, AI807018, BE930782, AU157883, AI131366, BE930853, AA862613, AI377403, AA126958, AI279884, AW473660, AW297366, AI951292, AI801182, AW206733, AA659802, AI127181, AI807789, W35110, AW044562, AI263384, AA626115, AA127167, BF886019, AW474787, AA133858, AW438973, AI478424, AI350993, W23677, AU139094, H48882, AI784505, AI873664, AA133857, BF478061, BE547913, BF973166, BE154191, BE814299, AI015764, AI520921, AA295407, BF820817, AI826302, BE002337, AI891052, AA310690, R86154, AI718930, AI890831, AW999311, C02402, AA669161, BF094289, AW612303, AA506435, F05073, BF931686, AI056063, AA326471, AW962216, AA485879, BF916803, AA814996, AW995444, AA633940, AA628592, AA514284, AK023661, AL137608, AF038963, AF181119, AF319661, AC010139, AL158824, AC020647, AC004021, AC008179, AL356118, AP001625, AL121763, AL138996, AP001747, AC062033, AP001626, AL359693, AC005704, AC009262, AC004863, AC005686, AL445465, AL158159, AL031073, AC007021, AL034452, AL355382, AK021584, AL118498, AF270569, AC009113, AL158033, AC018900, AC006988, AC078937, AP001039, AC007749, AC009410, AL136300, AC009757, AL359694, AC007455, AL121933, AP001732, AC000392, AC010361, AC005017, AC007363, AC006322, AC012405, AF131798, AC005521, AP001671, AC004231, AL355492, AL022719, AL391818, AF130359, AC005815, AC008177, AC009294, AF212831, AL356954, AC010180, AC006024, AL136501, AC007677, Z80771, AL049833, AC008123, AL138714, AC008952, AC026239, AC008838, AC009365, AC004108, AL163213, AC004078, AC005948, Z54246, AL357129, AL159996, AL121947, AL096828, AC009362, and AI310056.

HFJA96	129	949001	1 - 1041	15 - 1055	<p>BF793559, BE742939, AW007066, AI869968, AW273225, AI700037, AA443693, AW291991, BE328045, BE747815, AA777593, AI420588, AI033693, AI457222, BF221961, AI954483, AW084920, AI049858, AA203157, AW958390, AW194899, AA777584, N99910, AI150737, N99913, AA379692, BE468258, AA527616, AI458637, AA447078, W25289, BF845179, R80028, BF572256, N75501, AI214958, AI241596, BE799357, F10487, BE736238, BE392003, BE464214, BE391216, BF090234, R79938, R00703, BE735896, AV718692, AW966330, AV707024, AW975618, BE312058, C14331, AV742732, AW964468, AV724520, AV718681, AV705066, AV718489, AW973541, C14389, AV718800, AV699550, N71180, AV720791, D80164, AW978634, AW978648, AV701645, C14429, AV727990, D59467, AV699927, AW966053, AW973445, AW966054, AW960465, AV721644, AW966062, AW960553, AW964477, AV719468, AV720211, AV719783, AV720464, AV719188, D80227, AW966534, AW966022, AW966050, AV731510, AW959062, AV703472, AW966531, AW966041, AV718707, AW966013, AV719822, AW959570, AW966029, D51799, D59275, D80195, AW975621, AV701004, AW966075, AW966065, AW949654, D59502, AW973334, AW959597, AW959799, AW965185, AW965197, AW965175, D80269, AI611738, AW973307, D59610, AV723772, AV742048, AW949641, AV719557, D58283, AV720731, D59859, AV720150, AW959582, AV699447, AW975613, D80022, C15076, AW959628, AW960473, D80166, AW973474, AW973488, AV718931, D59889, AV720203, AW964756, AV718938, AW965158, AV738340, D51423, D59619, AV718633, AW975605, AW978661, D80210, AW965163, D80391, AW973485, D80240, D81030, D80253, AI802240, AV703042, D80043, D59787, AW958992, AV722801, AV719324, AV718440, AV720028, AW956434, AW965177, AW965196, AW965184, AV720878, AV718844, AV718770, AW973482, AW966389, AW958993, AV723927, AW959136, AW964488, AW962082, AW949656, AW949642, D80378, AW964737, AW960454, D80038, AW959202, AI557751, AV744690, AV683513, AI358701, D80212, D50979, D80193, D80196, D80188, AW949646, AW949633, AW966059, D80219, AV720220, D59927, D51060, D80241, AW949658, AV741220, D57483, AW966043, D50995, AW975623, D80024, D80366, AA305409, AW960532, AV721386, AV700889, AV742735, AW949629, AW949632, AW962245, AW973330, AV720812, AW956397, AW949653, AW949645, AW949631, BF089679, AW949643, AW949618, AW949657, AW949655, AI829327, AW966030, BG029829, AW966032, AV723097, AI610645, AW964532, AV742022, C14407, D80045, AW753053, AW966023, AW960570, AW177440, AW959469, AL036954, AW973490, AW103442, AW960504, AW973447, AC011500, AX033851, AX047063, AR018138, Z82022, A84916, A62298, AX047064, AR070327, A62300, AJ132110, AX027925, AJ302649, Y17188, AR072729, S68736, AF058696, AR087649, X82626, AL137480, AX047062, A30438, AX021518, AB028859, AK024594, I48978, AF106657, AR008278, AL096744, AF119865, X67155, AX040974, D26022, AX035434, A25909, AL133072, I89947, AK026927, AF113019, X68127, AK027204,</p>
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HTLGV19	130	949574	1 - 744	15 - 758	AL518685, AU118408, AI392811, BF435451, AA478198, AI435141, AI803046, AA478040, AW206706, AW367708, AA846117, AI928295, AI928292, AK024084, and AF178985.
HMSAC18	131	950257	1 - 1201	15 - 1215	AUI30929, AI814257, BF666825, BF110784, AI935638, AI420022, AA777386, AI554876, BE671069, AI014540, AI688634, AI697997, AI688556, AW297238, AI806683, AW263154, AI589076, AI149951, AA806969, AI741202, W44753, BF515202, AA974046, AA931887, BE763568, AA382865, AW969873, AW614265, AW082158, AA781969, R23772, R09585, AI207121, AA484643, AI538065, AW440609, AI619547, AI088390, AI741925, R09490, AW196711, AI584006, AI702846, AV755023, AL043103, AW959372, AW951170, AB023584, AF228917, AB020860, AK001608, Z47777, A30438, L40401, I25947, U46128, AJ133038, and AR040601.
HAPRB43	132	950475	1 - 2152	15 - 2166	BF338835, BF793959, BG260639, BF971421, BF029896, AI654147, BF132023, AI810992,

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HCCMD55	133	956895	I - 831	15 - 845	AA508185, AA507469, A1027643, AA622967, AA587020, AI832382, AA675917, AI826640, AW004708, BF680504, AL038837, AL039074, AL037051, AL036725, AL039564, AL039109, AL039108, AL039156, AL039128, AL038531, AL039659, AL039625, AL039648, AL039629, AL039678, AL040992, AL039150, AL045337, AL037726, AL039423, AL042909, AL039410, AL039085, AL045353, AL036973, AL044407, AW374686, AL039386, AL039924, AL039538, AW979228, AL038821, AL044530, AL036418, AL037526, AL036196, AL037639, AW975143, AL039566, AW973200, AL039509, AL038025, AL043445, AL037615, AL043441, AI721017, AW969885, AW276663, AL045341, AL134524, AL036767, AV743601, AL045794, AV746102, AV758878, T24119, AW064110, AL043422, AV718844, AV720464, T24112, AV738934, AV701012, AV701118, AW979144, AW969911, AL036117, AV737584, AW013814, AL043423, AV735727, AL036924, AL037082, BF294063, AV717989, AV717980,

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HKBAL08	134	958219	1 - 852	15 - 866	<p>             A1598222, AA722521, AA961088, AW813731, BF953169, T47819, AA297068, Z40359, A1698654, T47848, AW384795, AP001711, AP000248, AL136295, AC004867, AP001748, AL133245, AC004166, AL354720, and AL158830.           </p>
HKADF15	135	960658	1 - 2143	15 - 2157	<p>             AL537210, AL533136, BF345427, AW149077, A1189363, BF725380, A1052124, A1972848, A1336302, A1816720, AW192810, AW055174, A1148561, AW026468, AW072848, A1889989, BG163656, A1678779, BF966582, BF349689, AW152007, BF344992, BF337402, AV733778, AL533137, BF969402, AW964811, AV702560, AV752950, AA411195, AA632007, A1754763, AV725935, AA187659, AA488502, BG012437, AA411095, AA488517, AW380192, W81692, W68748, AV733973, AA128063, AA579881, AA037211, AA488385, AL535898, AW581075, W29006, A1127593, BF958186, W81265, BG000741, AW581079, BE138892, BE856061, W81693, AA479844, AA044753, AA707190, A1005306, AA186718, BF382521, A1128816, AA838684, AA112161, AA937185, A1128549, BE765227, AA488370, A1038838, AW510870, BF590113, AW241743, A1191854, AA634260, A1375760, BE697900, AA946838, A1122640, A1799431, AW150253, A1807683, W67176, BG000745, N39772, A1610621, A1126866, AW088704, W68726, W94696, A1189851, A1423369, A1167706, A1750804, H09725, AW014642, AA682978, AA186659, A1701245, AV725200, W17262, W47107, A1620250, AW085733, A1365999, BF243094, AV745950, AA102171, AW382122, W69696, W84609, A1066654, AA186789, AA188311, A1038848, A1138433, W80472, H10483, T95046, AW005675, R52327, W45606, A1750805, BE714469, AA186646, BG009129, AA705736, A1375026, BG013718, A1742719, A1096392, AA970331, A1189681, H42958, A1831119, R64072, BF726628, AA181038, AA083962, W67175, BE168843, T15745, BF934277,           </p>

					AA927755, AA074445, T35729, BF989644, T94312, R69632, AV711339, AA373910, H42889, AI086978, R22231, AW021831, AI200127, AA860791, R70843, AW801877, W60128, AI282288, AI160698, R63703, AI095362, N78832, C18770, F07134, H25800, R52328, AA779133, R69727, AI141372, AA186934, N92803, AI493541, BE074157, AA441966, AI245562, T41231, T52692, T15941, R76911, AA670487, H28629, T52691, BF594227, H26540, AA709438, W80580, AV745873, H75744, R77081, AA548872, BF085005, AA866101, AA737142, AI879858, AI751382, AA055347, BF085040, AA729410, AA377816, AI349098, Z40236, AA128020, BF085041, W60050, AV746593, AA665901, AW074636, R63747, R22703, H23452, H15931, AA479722, C00016, W47231, T95142, T94663, BG001917, T57580, AA853413, R23580, AA853414, AA908304, BF858261, BE767687, AA367100, AA853917, AA349615, AA476373, AA852169, T40380, BF928757, T49076, HI16043, BF992287, R45993, T06049, AA340884, BF992295, AA366834, F08513, AA188018, T55354, T34849, R80772, BF992293, W84590, Y07921, E12965, D87258, AR095627, AF097709, AF070555, AX015404, AF097707, AF179370, AF179369, AF172994, AF157623, I74320, AF097706, AF097708, I74321, I74306, A62298, A62300, AR050070, AX009343, AX009341, AX009337, AX009335, AX009345, AX009342, AX009344, AX009340, AX009339, AX009336, AX009338, AX009334, U94592, AX047063, AX047062, AX047064, A82595, A82593, Z30183, AX040581, U45328, AX046743, AR025466, T49075, T50999, T51087, T58082, T61154, T63896, R07603, R07604, T80106, R22289, R26453, R28462, R32652, R43408, R43408, R63966, R70789, R80771, R86274, R86275, H75878, N21446, N26329, W25048, W33109, W33110, AA044675, AA055346, AA181932, AA558933, AA613803, AA639432, AA962499, C17153, AA476323, T24693, D29346, F01873, F05610, F04728, T82292, AI245130, AI269807, AI335427, AI367112, AI201996, and AI453252.
HOGES5	136	961337	1 - 1963	15 - 1977	AW182452, BE250716, AI890424, AI640157, AW474326, AW130973, AI056660, AW150989, AI288965, AA242985, AW793562, BE250569, BE465736, AI744015, AI651429, AI636121, R06846, AA251971, AV650220, M91487, AI985781, R06845, AW363115, R02003, BG037194, and C01117.
HKZAJ14	137	961458	1 - 1254	15 - 1268	AW976735, AA883247, AW317020, AI091039, BE349081, BE221788, AI080490, AW009024, AI421443, AI141417, AW838561, AI333982, AW020988, AI332667, AI003921, AA740607, AI373690, AA424587, AA400517, AA972391, AI379240, AA633581, AI370902, AA620797, AA757270, AA909500, AA424632, AI680616, N32107, BE858145, N56779, AI870568, R71439, AI270464, AI085139, R43738, Z41046, AA225666, AI767739, AA502917, W37208, H00748, BF511394, BF887497, AI270546, AW271656, AI791895, AW805578, AA225611, AW370265, AL041562, AI792126, AI299358, R89180, BE671252, AA809663, AW183464, AW838715, AW838708, AL036881, AW029142, BF764614, AA805240, AI872415, AI351544, BE143557, AW299713, AW367344, BF875698, N74449, Z19142, H54493, T50149, D29384, H73186, H90881, AL133051, AF227906, AL021329, AL157406, AL157381, Z83843,

	138	962362	1 - 2040	15 - 2054	AC008551, AL109612, AP001696, AL136455, AC016689, AL109799, AC005204, AL139810, AP000340, AP001761, AC003049, AL135790, AL031054, AC010168, AC004106, AC004853, AL118496, AC068999, AC005014, AP000217, AC018698, AP000529, AP001731, AP001606, AP001605, AL118507, AL445188, AP002027, AC040163, AC010491, AF188025, AC010419, AC002066, AC007558, AL121823, AL022397, AC003968, AL049765, AC006978, AJ133269, AC007316, Z82194, AP000081, AL133229, AC004025, AF064860, AL161771, AC006287, AP000528, AC007683, U66059, AL034375, AC010627, AC010142, AL158144, AL109931, AC007132, AC005245, AL035604, AL035542, AC004453, AL139115, AL163280, AP001683, AC007920, AL135936, AC016898, AC004981, AC022509, AC006324, AL034369, AL360078, AL121582, AC012087, AL445669, AC011504, AL049646, AC005837, AC005227, AC000059, AC009196, AC009313, AC006265, AL354793, AL137251, AC007963, AL354866, AC007051, AC022203, AL162718, AL121590, AL049565, AC008739, AL139093, AL109919, AL132994, AC006026, AC007157, AB041731, AB020863, AC008534, AC004175, AC008468, AC002122, AL137013, AC008876, AL163218, and AB042031.
HLHAE14	138	962362	1 - 2040	15 - 2054	H49208, AI248942, AA358780, H60492, H60446, AI243090, H49394, AP001724, AL031591, AC006924, and AC005234.
HBCJN16	139	965190	1 - 868	15 - 882	AI978837, AI627369, AI564009, AI628545, AI690964, AI538855, AI860651, BF222277, AI683754, AI970793, BF436904, AI812041, AI829891, BF589851, BF032982, AA642553, AI560810, AA470903, AI359026, AI921985, AW664949, AW591110, AI083732, AI818681, AI827128, AI961526, AA125808, AI160064, BE989095, AI564610, AI624988, AI924700, AI278468, AW874402, AA483290, AA858390, N52182, AI225074, AA766421, AI376593, BE396135, AA830375, AW473661, AI698343, AI986231, AW950982, R89609, H78819, AI540430, R88929, BF691490, AA653492, BE382384, AI424782, AI241315, AI699227, R59708, AI613142, AW473446, AI244930, AW051166, AW193591, AW797434, AA909760, AW242968, BF221706, AI336173, AI923108, BF364662, AA128281, AV733824, AV757816, AC004602, X97966, X14479, X14047, and X72874.
HCGAF29	140	965372	1 - 2309	15 - 2323	AL528207, AU124711, BE745523, BE740018, AU124009, BE730967, AU132736, BE899077, BG261113, AW968672, AW971792, AI492156, AW235604, AI880771, AI697107, AI638177, BF183859, AU148517, AI968089, AI624692, AI378254, BE349453, BF062207, BE505015, AU150234, AU154209, AI922229, AA775806, AW044370, AI086087, AI151386, BG105708, AA423984, AA278565, AI073529, AI203148, AW117988, AW470396, BF827404, BF880196, AL135528, AV681665, BF445663, AA423985, AA481532, AW779281, AU127788, AI567161, AI266199, T93231, AI696723, AI655248, AA916500, AA811605, AI749400, BE927591, AA481598, AA523223, AA431069, AA522577, AI696237, H42013, H42014, T92694, AA743286, BE302733, AA258068, BF939161, AA417908, AA723166, AA418159, AL119399, AL119511, AL042382, AL042544, AL119457, AL043152, AL079794, AL134524, AL043168, AI675778, AI370623, BG166654, AI270183, AI613144, AI521799, N25033, AI368579,

AL515033, AW151766, AV749238, BG034746, AA639533, AI619820, AA521431, AI431323, BG113373, BF525578, AW059568, AI307557, AI524179, BF835240, AI439762, AW193020, BG164558, AI364167, AI247082, AL042866, AL047763, AI589428, AI620864, AI581139, AI950729, AL514871, AI879377, AW150578, AW162194, AW673679, AW970048, BF531023, AI241901, BF337043, AI537677, AI242246, AL039011, AL513961, BF974886, AI539260, AL121306, AL045166, AA761608, AI638644, AW089844, AI621341, AI224373, AI401697, AI499963, AL515191, AW071417, AL515021, AI345415, AI923398, AW051088, AA857847, AI225000, BF753014, BF771374, BF868489, AI698391, BF970509, BE965599, AW075382, AL513755, AI927233, BF965891, BE879047, BF342298, AI345688, AI469157, AI699823, BF812960, AL514691, AI683173, AL036403, AA969375, AI765469, AW080746, BF751457, AI590043, AI633305, AL513977, AL514879, AI539690, BF035213, BG113299, BG032704, BE873695, AW192300, AI499890, AL514205, AV647670, R40363, AW834282, AL514156, AI434731, AW022084, AI524626, AI873998, AV681771, AI536685, BF814449, BG260287, BE892572, AL120706, BE279800, AI884318, AI761468, AI270099, BE967219, AI263312, BF343205, AL513689, BF871314, AI491710, AI863002, AL046466, AW301861, AI953765, AA853033, AI433616, AI538850, AA731711, AI476076, BE393784, BF997967, AW029611, AA481053, AW021717, BE891834, AI445611, AW827193, AI860027, AL513901, AV750565, AI273189, AL514247, C21335, BG260930, BF342445, BE963954, AK022858, AF083217, AL121993, U77594, AF246126, A77033, A77035, AL389935, AF111849, Y11587, AF082526, Z97214, L10353, AL137254, AB048881, AL161954, AL353940, X72889, AL133558, AF126372, AL117587, X63410, X97332, AF151109, X76228, AF177401, AL137550, S71381, AL122110, AK026633, AL137292, AK024588, X66862, AL050277, AB048975, AF126247, AR081734, AI132433, AL133061, AL122045, AF067728, AX042059, AL133088, AK026038, I33392, AL117460, AF026124, M27260, U49908, AF116631, AF113677, AL117416, AF031147, AL137574, AF180525, AF057300, AF057299, X61970, AR068753, AK026843, AF112208, AF061795, AF151685, AF026008, I89947, AF047716, AL137627, AL080234, AR053103, L04859, AK026649, AK026592, AB047627, AK026462, S36676, Z13966, AL357195, X98834, AR082685, AF242376, U72620, AF130102, AI8777, U70981, AJ005870, AK000257, AK025658, AF185576, A08910, AR038854, AI355701, AC002464, A08909, AR013797, AL137530, AL137271, AK025798, AL122100, AF090886, AL137533, AR034821, AL137479, AL137267, AF245226, AF314091, AL162002, AL137275, AF113019, A08908, AL078630, X79812, AR012379, AL080146, U02475, X83544, S77771, A91160, AL117457, AK025113, X59813, AF030513, X66366, A91162, AK000653, AF132730, AF026816, AK026626, AK027161, AK025209, AK025239, AL137529, AF254119, AL133015, AJ005690, AK024978, AL137657, AF116688, AL133084, AL049339, AF119899, AF087943, AF119857, AF130099, AL359620, U35846, AL133049, AK027260, AF035161, AL162001, AK027095, D44497, AF218000, AF271786, AF124728, AR083283, AL133619, I48978,					
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					AL110218, AL389982, AP001666, AK000652, AK027081, AK026528, U89906, AL117626, E12580, AK026541, AK026959, AK025092, A08912, E01314, U62807, AK025708, AK024747, AL161964, A08911, AB052191, AL137459, AX020124, U79523, A57389, AF130056, AK025391, AF054988, AF115392, AK027103, AF131821, AF017790, AK025632, AB044390, AF044323, AF124435, E08516, AF167995, AL133560, U75932, AK024533, U92068, AK000074, AK026571, AF126488, I09499, U83172, U75304, AK027209, AF158248, U73682, I32738, S76508, AF104032, AF130104, E03348, AK026597, Y11254, E03349, A76335, and AR029490.
HAHEF81	141	967634	1 - 702	15 - 716	<p>           AV683103, BE305206, AW001250, BE305236, AA643098, BF058371, AW054839, AW973518, AI833102, AW083028, AW469562, AI089867, AW134724, BE563230, AI770105, BE798906, AI859283, BE794306, BE727113, AI802405, AA576674, N94517, AI310487, AI367446, AI220318, AW079526, BF431056, AI309785, BE791858, BE736541, BF685650, AA576675, AV700158, AI810441, AA868821, H91632, AV722364, BE305124, AA884876, AA745899, AW406468, BF591335, AI887153, BG025439, AI091509, BE386733, AW083220, BE293628, AA587461, BF877339, AI245325, AI684772, BE250144, AA114265, AA548065, AW296891, AI766800, AA085398, AW071593, AI919368, AA113184, AA886171, BF888965, AA082885, AI611050, AI805079, BF889006, AA305339, AA887298, AV696144, AI352497, AW151136, AL119863, AI862144, BG180034, BG030364, BG031539, AL041772, BF904244, AV655280, AW772685, AW020693, BF038131, BG256592, BF816037, AW268220, AI334450, AW673679, BE904051, AV704696, BG120816, AI520809, BG168549, AI610086, BF970449, BE785868, AL036274, BF814420, BF672397, AI269862, AI610756, AI689379, AI952217, BF822127, BE256437, AW827276, AI284517, AV721521, BE672647, BF968205, AI336633, AW148320, BG031664, AI498579, AV715560, AV760102, BG249582, AI251221, BF854113, AW827289, BG110517, BG164371, BF812933, BG031815, BF341801, BE048071, BE246734, AL119791, AI349967, AL036631, BG036846, BF727072, BE047852, BF338723, BE876033, AA427700, BE047737, AI537244, AI569583, AL041150, AV757639, BE544111, AV645906, BF038134, BE877769, BF792469, BE874133, AI364788, AI335209, BE047952, AI829327, BF812431, AI609592, AL042628, AI270707, AW023590, AI174394, BE880182, BF032768, BF726198, BF339322, AI889953, BG024332, BF826445, BG260037, BG168696, BG034609, AW082594, BF904265, AI349226, AI439478, AW103371, AI468872, AI955866, AI433976, AI500146, BF795712, BG257535, AI309401, BE886728, BE963035, AW268067, BF970768, BG112239, BF856052, AI620284, BF812938, AI524671, AW302992, BF814525, AI570384, AL045500, AI433157, AS572758, AL040241, BG026428, AW946806, BG252929, BF344652, AI636719, BE965724, BF814335, BF527014, BF816455, BF812960, AI539771, AI800453, AI340582, AI800433, AL039086, BG032208, AW071349, AW268122, BG029667, AI340603, BG110684, AI537677, AI445165, AA225339, AL120695, AI282326, AI500659, BE905749, AI554821, AW858243, BE887488, AW169653, AI349004, BE904178, BF885675,         </p>

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HBAB02	142	967807	1 - 1682	15 - 1696	AL529646, AL529645, BE898304, BG112747, BG036058, BF791411, BE392384, BE621757, BE548173, BE895853, BG034671, AA808894, BE901085, BE278873, AW152607, BE795658, AW166898, BG122141, BE782474, BF972826, BE793716, BE140314, AW750993, AA826362,



					AW517942, BE714673, T59668, BE731030, BF939314, BE732766, BE745104, AI290469, BF477770, AI805651, AI961329, AA581089, BE902575, AW197375, AA974066, AI950259, BF802171, W27729, AV693783, AA877530, AA715365, AI968889, AA885542, AA160748, AA386371, AA335719, BF873961, W73105, BF223151, BE740826, AL120854, AA318192, AA501478, BF125073, AA581100, BE548914, AA658457, AI948815, AI621069, T59802, AA468534, AA503715, BF850755, AW956069, AW841506, AI144504, AA352215, BE897964, BF833404, BF373009, BE090290, BE168997, AW855521, AW820855, BG230749, BF376598, BE622839, BF923143, AK000069, AC015651, and AF147378.
HOUCR01	143	968171	1 - 2007	15 - 2021	BF346477, BF970344, AI884801, AA233924, AI125760, H97661, H18098, H19086, AI193252, AI085879, H11343, AL134720, N23132, BF926085, AI671245, BG056879, D81062, AA412275, AA552173, AA503379, R49191, H18987, H19618, R34661, AW590283, F04762, BG056899, BF947363, BF509640, D60732, AI870535, H19253, R07822, H11367, AB046639, and AL109677.
HDTIG18	144	968454	1 - 1566	15 - 1580	AL526279, AI529830, AL524370, AL528814, BE562759, AL529831, BG165233, AL524371, BF685557, AI133513, BE887721, AI057617, BG252265, BE562767, AI982853, AI831623, BE515156, AA648914, AA873629, BE256597, BE222487, AW958929, BF725899, AA280089, AA878448, AW248558, AA744548, BE504278, BE795016, AI304316, BE302017, BE252066, BE295640, AA781577, AI185163, AI955795, AL526312, AI422964, AI571353, AI185152, AA460511, AI313197, BE018406, N32767, AI371028, AI696978, AW439404, AI150883, BE909535, AA447517, AA759128, AA806385, AI335852, AL536983, BF839452, AA459868, AA416893, AI859544, BF512726, AI023406, AA948038, N46869, AI369825, AI128795, W68616, AA025669, AI970652, BF055247, AA934724, AA448500, AI192983, AI167362, W86098, AA864949, BF684491, W69447, AI056657, AW368494, BE265673, AI301282, AA720593, BE695982, AA470054, W72840, W68762, N53510, AI249484, BE540573, AA974936, W69530, AI038444, AA936842, AI348453, AI014303, H98698, AA709334, AA808641, AI312674, AI199491, W92405, BE790027, N81039, AI057225, T03564, AI568703, AA626030, AA973884, AA602321, W00672, H12272, BE259065, AW591539, AA020993, AI368079, BE304909, AW514017, AA670069, AI933159, AV738245, AW058033, AA255941, W35340, T32967, AA568156, AA908647, AA034004, W37082, W46670, W46477, W69899, BF445619, N41767, AI630758, W92406, W86132, AA084553, AA256083, AW172949, AA903756, W72841, AI420992, AA280018, T19225, W69900, AA025668, BE858644, AI160240, BG054803, BE769759, N24265, AV754922, N69042, AW519261, AI475440, AV755645, AW952445, BF432703, AI073732, H80576, AA384632, AA954180, AA977386, AA731196, BE782364, AI546958, AA864850, BF088237, BE769753, AA018468, BE261321, AW661944, Z40864, W07667, AI084547, W37839, T89010, H18524, AI751885, AV744297, Z45130, AA022626, T31441, AW629168, AW362019, R41618, W23741, AA629248, AA059201, H80524, AW149176, F08633, AW368488, BE293875, BE910358, N80003,

					AW797801, AW797860, H84422, N47190, AA912856, BF929993, AI872803, AA477003, AA016236, T35431, BF792937, AA022773, BF927154, HI2273, F01896, H84421, BE910534, D25627, AI870539, C20582, AF085362, AB017644, AF003346, AC002524, X92664, X92665, AA059305, and AI475258.
HBLGD30	145	968949	1 - 3937	15 - 3951	<p>           AU134073, AU133830, AV648674, AV649343, AV661909, BE439435, BE884067, AV684104, BF130482, AW950668, BG179663, AV720745, AV719320, AU134196, AV658379, AV682989, AI683839, AV734860, AV718561, BF921039, AA219354, AI769578, BE898808, BE971367, BF126657, AI269889, BF574193, BF726784, AV720490, AA741202, AI687338, AU155184, AI302101, AV718656, AI950030, AI889538, AW419072, AA918982, AW088433, AI761095, AI309991, AA281666, AI923375, BE513666, AW006277, AI924724, AA166902, AA402240, AW273276, AU155289, N53433, AU149941, AW015771, AI963654, AI922198, AI458138, AA492037, AA165601, AI128266, AA946849, AI277947, AI343881, AA402701, AW474149, AV652478, AI289226, BE672470, AV682550, AI467936, H04844, AV648804, AA166973, AA171809, AI288268, AW303836, AI823730, BF924128, AA169335, AA769673, AV655147, BE971266, AA165482, AV661997, AI921934, AI358150, AI985661, AV651692, AI277803, AA283660, AA172240, AI812089, AI301236, AI90616, AA171694, AV658439, AI538280, AV658013, AV650229, AV656880, AW193233, AV656493, AV649185, N69299, AV720068, AV650236, AV658487, AV659340, AI064929, AV686668, AV652883, AW839157, AV695293, BE081066, AA661833, AV697695, AA172005, AV657340, AV654764, AV654748, W22608, BE006635, AW950671, H86642, BE065513, AV655339, AI886539, AA953507, AI933892, AV659795, H04754, AV728343, AI194079, AI524590, T68167, AA832118, T69598, AV661653, AV709878, AA333043, AI857292, T71679, T40113, T40914, BE934168, T51148, AW839165, AW118431, BE567199, AW089848, T28653, H86554, AA333248, AW167184, T68242, AW890922, H42697, AA344502, T67818, T67969, T41019, AV652268, AA283661, AW445174, AI926046, BE936564, T69670, R26189, AA344900, AA166820, R46148, AA825794, AA344899, AA527160, BG235955, AA171782, AV652035, AI684991, AI613148, BF571293, AW576487, AV696380, AI648426, BG054975, AI421700, AW050523, AW026809, AW519214, R26437, AA603131, AI301343, AW440530, AA863095, AI479558, AI310961, AW244013, AA172094, AA191647, BE172361, AI933890, BE936569, AI949429, N40513, N50749, AV659135, BF056055, AV661586, AW576821, BE392045, BE065578, BF087108, BF841532, BE065575, BF839027, AW372005, BF837371, BF844137, BF841534, BF155460, BF837360, AW606252, BF087056, BE065616, BF835820, AW383782, AW372003, AW383748, AW372012, AW383775, AW382951, AI909730, M13699, M13536, L33869, AF202115, AF134814, M18058, U49430, AK026357, D00025, X69706, Y12178, D45045, D45043, D45038, D45036, D45039, D45033, J05506, D45035, D45037, X04136, D45034, D45040, D45044, X04137, D45041, S77464, D45042, X04138, AF134057, Z24023, AF260927, AF075665, AC004226, AC009242, AJ131017, AF141647, and         </p>

HFTHK04	146	969387	1 - 904	15 - 918	AC011327. AI949559, AI810510, AA203625, AW959632, AA702005, AI991043, AW340445, BG251324, AA838409, AI961293, AI160070, AI160071, AA747429, AI143612, AA730360, AA773195, AA682367, AI298831, AA961230, AI268727, BF793895, R83902, BG236172, BG109845, AA953598, AA704547, AI146455, W38306, N79799, BE933639, AI864592, AA299329, AI140380, AI290069, AI186783, AW440342, BE164467, BE164468, AW139541, T91068, AA514600, AA195913, AA508637, T59891, AW816281, BF874763, D20437, AI288391, AA634125, AW965354, AA195432, BE255866, BE547821, BE741757, BF528086, BG258828, BE903000, AI111193, AI904111, AV728544, BF312864, AA318279, BE251694, C03377, AA310941, AW771668, AW964397, R59429, R98152, BE296575, AA370568, BE746935, BE793656, BE971409, AA411943, BF574705, BF316683, AA780433, T91217, AL523605, AA524887, BE185327, BE185262, BG169979, AA728871, AA328245, AF282903, AL136968, U92032, AL354868, AC012072, AC002074, AC007511, AL135924, AL133332, AL078593, AC007796, AL049874, AC016831, AC013358, AC017082, AF020803, AP001614, AC079045, AL163280, AC007564, AP001251, AP001743, AC004963, AL135749, AF217490, AL450169, AC010849, AC025809, AC009362, AC002352, AL031283, AP001679, AC005998, AC018641, AP001724, AP001669, AL023694, AL356414, AF015720, AC016816, AP001683, AJ229041, AC026409, AC005005, AL031387, AL031429, AL136504, Z98747, AF017104, AC008033, AC008560, AC004068, AC004889, AL035427, AL353748, AL035089, AF248484, AL161638, AL133387, AC018642, AL163207, AC026884, AC008163, AC006967, AC008774, AP000472, AL023805, AC034235, AL163227, AP001038, Z98946, AC005601, AL133467, AL133382, AL050336, AL034351, AC016689, AC007126, AP001819, AC017002, AC004896, AC004048, AP001732, AC037193, AP001711, AC003109, AC006062, AC010498, AC005515, AC002069, AC007156, AC004184, AL022401, AC010305, AC016602, Z86062, AL161731, AL133517, AL121654, AC008042, AC010582, AL122021, AP001715, AB014088, AC004998, AL132633, AC066583, AC005229, AL136529, AC004190, AC025577, AC005738, AL118524, AC006031, AF119841, AL078623, AC004815, AB000882, AP000506, U85196, AP000279, AL136359, AP000516, AP000106, AP000038, AC004968, AF179633, AE000661, AC010723, AL161717, AC008268, Z84480, AL157765, AC004053, AP000108, AC009044, AC005880, AL121898, AF241725, AC008543, AL139189, AC008486, AL356057, AL049844, AL132657, AL133247, AL050308, AC005598, AL117187, AC006337, AC005099, AL031316, AC025030, and AL118505.
HODIL24	147	969841	1 - 834	15 - 848	AL041101, BG177845, BF216023, AA281685, N41356, BF350128, BF211006, BF668757, BF932699, and AL355305.
HE8NQ16	148	970046	1 - 2887	15 - 2901	BF966722, AV706600, BF792757, BF976723, BE882014, AW149468, BF105008, AL138321, AA425241, AV724632, BF033996, AW578056, BF966526, AV746348, BF346432, AW752968, BF338848, AW263259, AI004242, AA037179, AA872675, N29085, BF955280,

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HOFMS34	149	973010	1 - 1006	15 - 1020	BE736746, BE379381, BE378584, BE378500, BE378075, BE515303, BE780958, BE614826, BE393601, BE394088, BE735483, BE392462, BE394406, BE378901, BE394632, BE378758, BE615872, BE388690, BE378357, BE387695, BE563033, BE392780, BE392047, BE395788, BE394179, BE392832, BE389364, BE389345, BE395181, BE392472, BE515219, BE615406, AA464826, AA453149, BE735871, BE392729, BE387682, BF210381, AA442802, AJ403128, AC007078, and AC004980.
HOF0B11	150	973505	1 - 781	15 - 795	AL533548, BE789099, BG116125, BE887081, BG107890, BF700463, BE880927, BG030517, BF030581, AW957637, BE781717, AV733955, AV710046, AV718270, BF668753, BF669212, BF701113, BF129991, AV714563, BG254144, BE878731, BF701393, AV651776, AA314273, BE568697, BE545003, BF242902, BF666696, AV757896, BE904360, BF978924, BF665580, BF028073, AW351912, BF697317, BF037589, AA305370, BF213439, BF724466, BF241919, BF185721, BF692658, AA306430, BF667996, BE888408, BF964977, BF669293, BF185277, BF700414, BF211541, BF665260, AV707435, AW752399, BF244581, BF541632, BF680798, BF028474, BE960947, BF104162, BF029708, BF667913, BF695497, BF665760, H18045, AV701697, BF381984, BF699689, BF184304, BF185628, BE565642, BF244157, AW630212, AV655721, BE569124, BF131429, AA181455, AA315633, BF132852, BF031301, BF692251, BF668875, BF691021, BE779388, BF213025, AA186625, BF214411, BE568476, BE898217, BF664872, BF690925, BF031185, BF243347, BE958024, W79010, BE865509, BF674472, AA531308, AV714850, AA204997, BF665354, R80694, BF307415, BE567887, BF977109, BF106436, AV755841, BG025945, BE568064, BG029271, BG249184, BF240785, AV682318, AV681563, BE814385, BF214964, H22737, BE168154, BF575790, BF664562, BF670667, BF215015, AA085686, AA001470, BF750591, W55909, BE168394, W20245, BF030440, BF752526, BF693954, BE865807, AA297247, AV661606, AA298432, AA298665, R64278, BF104127, BE813635, BF131056, AA297858, BF184679, W93867, BF757214, AV757484, AV759869, AA298833, BF241923, H21844, H00199, R93867, N25143, AA088796,

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HTLHN94	151	974667	1 - 1988	15 - 2002	BE393547, BE740719, BG251252, AI970830, AI478592, AV707783, AV728270, AV706183, AV706724, AV702427, AV727932, AV726505, AV701611, AV704974, AV659189, AV725927, AV706746, AV729983, AV709407, AV726067, AV725369, AV704592, AV728777, AV732002, AA744769, AV753374, AV658362, AV705020, AV702637, AV704916, AV723449, AV702798, AV751921, AV730781, AV751555, AV732149, AV730288, AV731744, AV731313, AV752043, AV731759, AV731708, N90871, AV730547, AV731977, AV757088, AV732155, AV710417, AV728872, AV730711, AV701237, AV731694, AV701320, AV707882, AV730165, AV731915, AV662191, AV726674, AV730171, AV752443, AV746276, AV751573, AV756053, AV761002, AV731043, AV760693, AV730816, AV757887, AV732353, AV757553, AV758481, AV707088, AV656240, AV756895, AV731275, AV733303, AV706910, AV702409, AV702869, AV710534, AV647654, AV726738, AV710938, AV706104, AV711496, AV755874, AV702498, AV711095, AV732653, AV752447, AV732746, AV710421, AV702787, AV758133, AV707686, AV714368, AV707171, AV758003, AV726480, AV702671, AV732089, AV705234, AV752684, AV755714, AV707589, AV703591, AV745906, AV702354, AV706035, AV711567, AV724987, AV727103, AV703417, AV652808, AV755473, AV726392, AV729129, AV702537, AV656004, AV710495, AV723452, AV707948, AV728715, AV730456, AV763669, AV711185, AV646736, AV757673, AV732255, AV702026, AV727189, AV757281, AV705263, AV702954, AV706683, AV746382, AV729357, AV727355, AV652156, AV701783, AV711240, AV726830, AV710146, AV701728, AV763440, AV709935, AV710562, AV725387, AV707690, AW575986, AV709356, AV704924, AV705504, AV725281, AV761270, AV711274, AV710825, AV703012, AV703232, AV709897, AV763171, AV745415, AV704611, AV697638, AV757864, AA453130, AV710375, AV757171, AV710935, AV702958, AV645778, AV650367, AV687176, AV707685, AV704981, AV706662, AV707117, AV706234, AV755335, AI475480, AV701538, AV706357, AV705662, AV728289, AV708809, AV705343, AV729220, AV728884, AV707798, AV757686, AV726520, AI028697, AV729568, AV703367, AV707556, AV745756, AV756386, AV710906, AV706453, AV721645, AV702984, AV706989, AV725386, AV726624, AV706814, AV758022, AV706047.

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HLDRT31	152	975754	1 - 697	15 - 711	AA884524, AI301704, and AI670928. AL534044, BE393397, AV683465, AV684627, AV689796, R95052, AL036390, AV660907, H56723, BF955572, T82240, R94378, H47159, AL045713, AV692841, H57229, T68625, R29170, H77694, AL046550, H67944, H67929, AW392670, BE695785, AW971745, AW804686, AL119319, AW604723, BE705903, BE705906, AW858526, AW858525, AL119439, AW861944, U46347, AL119484, BE705905, AL119396, AL119391, AL119457, U46350, U46351, AL119324, AW577135, AW384394, AW861889, AW858455, AW372827, AL119401, AW363220, Z99396, AL119399, AL119443, AL134525, U46349, AL119497, AL134527, BF868684, AL119363, AL119444, AL119355, AL119483, AW877209, AL119522, AL039912, AL037205, U46341, U46346, AW604726, BF868687, BF868697, AL119418, AL119335, AL134538, U46345, L11924, I36334, E12495, I84668, I36338, I36332, I36333, I36337, U37055, U28054, AL137798, AL021920, U28055, AB026436, AJ279014, AR066494, AX046357, AR060234, A81671, AR069079, AJ251859, AX030435, AR054110, AR043113, and AR080280.
HWLHW86	153	975771	1 - 1639	15 - 1653	AI718512, AU123914, AI748996, AI951481, AI745085, AI809713, AL525153, AU134222, AW188163, AI721217, AW007667, AW103479, AI828182, AW004850, AI686915, AI628538, AW070523, AI962963, AI697298, BG248600, AI471537, AI635101, AI889467, AI978632, AW860950, AW167961, AW474348, AW190605, BE674290, AI571882, AW129970, AI922593, AL047838, AI579919, AU126920, AW055284, BE869430, AI955311, AW242156, AW272287, AW873982, AI743468, AW513282, AW129586, AW571890, AU117740, AI624711, BE869709, BE870743, AI469222, AI625272, AI684079, AI679591, AW780155, AA424668, AI679333, AW473340, BE047040, AW475082, AI571037, AW029090, AI809712, AA130871, AA528645, AI459465, AW780425, AI540550, AV748643, AA528637, AI024785, AA406196, AU155306, AA411381, BE672486, BF028802, AW591592, AA577525, AI333612, AI687294, AI241214, AI299682, AW473388, BE177710, AW749077, AA483903, AA847578, AA424571, AI889684, AU149678, AA502398, AA580416, AA130926, AW862587, AW820899, AA835115, AI707527, AW075441, BE394676, AI216279, AI579897, AI886530, AI285185, BF038363, AI285353, AA908633, AL525154, AA724605, AI219442, AV748644, AI269213, AI038566, AW769100, BE843159, AW196292, AW361641, AW610090, AI824537, N92767, AA527850, AU144491, AI475347, BE168336, BF034328, AI078813, BE159920, AA443854, BF759422, AI074078, AA846205, AI803815, AI300799, AI689710, AA983659, AI289495, AI022819, AW473456, AA548485, AA554075, AA235136, AW193746, AI538623, W33013, AA158014, W32964, AW578996, AI123271, AA635113, AI567018, AA157929, AA526284, AA113218, W39707, AI702978, AA137210, AW971233, AI364251, AA493629, W15485, AA446644, W19420, W35400, BE720821, W37704, R81916, AA146623, BF673265, AI494071, AW132100, AW951883, AA055858, AI215543, AA158159, AI625623, AI284796, AW971035, AW372994, AA160230, AI362334, BE002725, BE843163, AA234829, AI890170,

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HOFNM53	154	976051	1 - 1576	15 - 1590	
HDPSE86	155	976207	1 - 1781	15 - 1795	BF974829, BE397549, BE397511, BE562264, BF976322, BE561928, BE396546, AW245133, AW001450, AV708281, AW248252, AW247758, AI918591, AI299148, AI741759, AV705891, BF327331, BE718012, BF764942, BF353438, AI583563, AI961410, AI679359, AW081424, AA865519, BG260187, AA807017, AF086713, AF086714, AL137462, AF262962, U31501, AK026830, and X52562.
HHFOE18	156	976216	1 - 1574	15 - 1588	AW964029, AA447232, BE155292, BE706821, W00562, AI752017, AA478880, BE072829, BE072835, H83253, AA377805, H53182, AW175670, AA295304, AA300104, C14702, AA431941, AI378520, AW444970, BF350693, AI127045, AI633683, AI345957, BF002061, AI033307, AI394583, BF349443, AI738683, AI677991, BE072831, AW207729, AI627661, AI274923, AW317022, AI983858, AA478623, AI751620, AI913309, and AL355492.
HHFNIH27	157	976968	1 - 945	15 - 959	AL527962, AL517471, AL535489, AL538229, AA608734, AI760012, AW117939, AI038063, BE275287, BF966024, BF182712, BF794346, AV711147, AI992187, AI089408, BE271201, BE515144, BE785567, BG110602, BG028741, AW007641, BE735414, BE622727, AL538228, BE784154, BG108156, BG026353, AI444578, BE735452, BE277188, AW081275, BE562586, AL517470, BG034283, BG177569, BE270977, BF129032, BE730250, BE515135, BE745656, AI911660, AI762510, BE562179, AA573212, AW058227, BG252386, AW026216, BE781752, AV755448, BE780584, BF305350, BG036120, AI479604, BF976260, BE893200, AU126121, BE794959, AA482981, BG026476, BE277036, BE905103, AW167227, BG166075, AL525753, BE513556, BF237575, BE885910, BG028762, BE886434, BE734123, BF309611, BE736636, BE789073, BE878062, BF794656, BE275217, BG249366, AA595496, AA843894, BE612825, BE893060, BF686280, BE887584, BF237505, BF675994, BG113631, BE297840, BF307019,



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HMMBZ81	158	977264	1 - 538	15 - 552	H59173, AL133861, AW131034, C06458, AL042282, AW467497, F34939, BF945995, BF760573, AA526099, AL120191, AI610634, BE149287, AW609312, BG106119, AA744449, AA744465, AA745470, BF853581, AA728911, AU145868, AL022336, AL133173, D84394, AP000509, AC007225, AC021036, AL133230, AC006111, U96629, AL034379, AC006050, AC003029, AL034422, AL109865, AC007619, AC010077, AP000692, AC004896, AC007227, AC011491, AP000967, AF200465, AL121905, AC004150, U78027, AC018755, AC005921, AL035422, AC005003, AP001725, AL022316, AL135927, AL391114, AC006312, AC009244, AC024075, AL138815, AF196969, AC005211, AC004596, AL035249, AC053467, AL136000, AF001552, AL050307, AC004678, AL031588, AL031284, AP001670, AC004962, AC010463,

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HSLGF32	159	977704	1 - 1585	15 - 1599	BE784734, BF528372, AW664953, AW294691, BF670655, AA411625, AA464785, AA971619, AA909175, AA406575, AA256188, AA486336, AI868650, AW276335, AW271701, AI908352, AA488056, R93249, AI864543, T84938, AI282858, H95668, AA256150, R16409, R12671, BF588476, AI797610, T91956, BE622938, AL042508, BF755924, AL035669, and AL133063.
HEEAH23	160	978593	1 - 427	15 - 441	AL529051, BG168572, AV687207, AW247426, BE249849, AK022736, AB014549, AC008132, AC023491, AC007981, AC023490, AC007957, AC011718, AC009288, AP000552, and AC008079.
HODFU73	161	978812	1 - 771	15 - 785	AI337853, AI290624, BE613007, AW190836, AA036954, AW392096, AW452245, BF039005, BF699641, N95243, T25091, AA036998, AI648608, R47204, AC007392, U85707, U33630, and U33629.
HNBUA49	162	978998	1 - 1620	15 - 1634	AI871477, AL520825, AL525683, BF686227, AL040660, AI049979, BE746500, BG260309, AI051966, AL043088, BF792585, AL041341, BE249840, AI760387, BE273020, BF690244, AA772213, AW440407, AI860755, BF663608, AU118417, BG169576, BE873422, BE378917, AI192298, AI818417, BE293451, AI676150, AI828421, AI827007, AW071445, BE315277, BE293812, AI701967, AI690912, AW151086, AW167306, BE293738, BE250330, BE250827, BF526581, BF972183, AW795577, AW474833, BF527867, BE221350, AA837413, BE858496, AW071494, AW276436, BE260699, AW577804, BE304919, BE222850, AW673333,

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HVVDU73	163	979346	1 - 2290	15 - 2304	

HHESX72	164	979468	1 - 467	15 - 481	AI368181, BE042388, AI625947, AA160436, AA552111, AA502830, T97710, BF812178, BE083633, BF737129, BF737107, T97813, BG222333, BG222571, BF914747, BF916953, BE871206, AW117966, AA715308, BE838489, AW392656, BF764625, AW291547, BE714141, BF754423, AW362652, BE714142, AW087246, AI682601, AW389752, AW375948, BF737124, AI700409, BE827597, AW074322, BE899333, AI824247, AW375934, AW366796, BF772249, BF882777, AW178433, BF843569, BF834553, AA300230, BE564406, AW794420, AW375987, AW375988, U42408, U58994, U58011, and AC006504.
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HOCYP88	165	979547	1 - 1395	15 - 1409	AW004023, BF690205, BF791885, BG029479, BF000545, BE047000, AW977945, AA909986, AU151274, BF512375, AU147671, BE350857, AW467591, AA142943, AA811324, AA150646, AW468491, BE672409, AI301026, BF689816, AW845190, BE392310, AW514680, AI984280, BE140523, BF229544, U53081, D20997, AC006544, AC003065, AC005033, AF035299, U70987, AF180527, and AF229166.
HOGDC64	166	979666	1 - 1794	15 - 1808	AA868550, AL530411, BG254611, AW954131, AI201166, AW193909, BG151533, AW084462, BF791908, BE260095, AI922273, AA523858, BG260949, AA781100, AW105220, AA596049, AW005327, AI214604, BF984366, AI802642, AL524639, AW090564, AI567735, AA897529, AA193192, AA629069, AU147852, BF979856, AA858423, AA425360, BG149247, AA908794, AA778624, AI686401, AA393835, N72685, AA868129, AA923361, AU148101, AW183908, BE206598, AA075361, AA580324, BF743368, AI357135, AA926834, BE670517, AI803714, BF197076, AI284934, BG116362, AW983892, AI284936, AU154733, AI130025, AA758676, AA907260, AA311449, AI077310, AI298616, AA706885, AA969247, AI457308, BE045930, BF743297, AI418560, BE219395, AL043460, AA861359, AI720212, AI342423, AA468338, AI936296, AA075362, AA454947, AI458647, R37961, AW246825, AA136701, AW607431, BF743315, AA548507, AA973365, AA053135, AI659588, AI925822, AA425566, BE439633, N68585, AA834427, AI635130, AA167347, BG164125, AA431980, AI264546, AA431965, AA176535, AA748183, AW750653, AA989525, BF223350, F31676, BE253169, AA468339, AW950325, N46268, AA769323, AI985073, AA994254, AW470425, R53597, AI621110, Z24883, AI285063, W81103, AW090765, BF957740, AW628661, AW592166, BF767591, AI703044, AA385660, AI860560, AI202413, F30676, F32050, AA564380,

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HSIEA14	167	980139	1 - 774	15 - 788	AW301736, AL042667, AL042670, AV695478, AW328202, AW238341, AI538491, AA569494, AA572983, W42588, AI278972, AL120141, AI821382, BE042006, AI307201, AA501461, AA837597, AA514450, AV761433, AI753969, AA613761, H68343, BE139139, AI250552, AV648653, AI284543, AW020612, AI689198, AV656063, AW613448, AI005613, BF917473, AI254770, AI744830, AI820534, BG030789, AI251284, AI251034, AI251203, AI223626, AI249853, AA526099, AW023515, BE138387, AA602105, AI798407, AI439393, AI690497, BE169870, AI692245, AL133519, Z83819, AC002350, AC021036, AL031733, AP001706, AC005844, AF017104, AL157372, AL117341, AP000073, Z84487, AC007282, AC011742, AL022336, AC019106, AC008011, AF049895, AL109797, AP001710, AL160231, AP001759, AL137073, AL391114, AL049713, AL133454, AP001683, AC058791, AP000104, AC007880, Z93341, AC011904, AP001714, AC008738, AC016689, AC008543, AC009225, AL024507, AB000882, AC006449, U96629, AP000344, AC007225, Z98946, AL050333, AL049838, AL121782, AC004491, AL009181, AL035249, AC005064, AL121825, AF205588, AC024082, AC009060, AC005663, AL121949, AC007546, AF107885, AP002530, AC011500, AL137060, AC005969, AC005216, AL031848, AC005291, AL133453, AL353802, AL078591, Z98742, AC002418, AC004386, AP001728, AC013429, AC018513, Z83843, AC002303, AL139826, AC005703, AC008008, AC003042, AL033381, AC005332, AC007938, AL121872, AC006121, AL138755, AC0073574, AC011311, AL139109, AE000658, AP001725, AL138828, AC009236, AF196971, AC002429, AC009016, AC012156, AL157791, AC004847, AL109743, AC006160, AP001712, AC007486, AL157413, AC005352, AL109923, AP000692, AC005386, AC004977, AL034550, Z96050, AL360227, AC000004, AJ229041, AL121878, AC008267, AC025442, AL117333, AL136979, AL050317, AC008750, AL359704, AL031681, AF027390, AC004743, AL008732, AC009501, AC007690, AC005562, AC078889, AL355886, AC009238, AC005214, AF280107, AL121852, AC009470, AC007773, AP000352, AL031685, AL136365, AC005821, AP001720, AC020898, AL356379, AL049760, AL049776, AL441887, AC010219, AC003992, AL138752, AC012351, AC012309, AL080317, AC002381, AL035458, AL031289, AC003662, AC036103, AC007312, AL445687, AC006120, AC024600, AF241726, AC005358, U80017, AC004859, AL133153, AC027689, AC005069, AC007376, AC009953, AC018684,

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HSPSY43	168	980269	1 - 2040	15 - 2054	BF570385, BF570180, AI088647, BF966694, BF569195, BF970112, BE878705, AL535894, BF569896, BF340266, AI810738, BF530956, AV725665, BF342973, AI692873, BE271105, BE857228, AI927745, AW615420, AW151706, AA604247, AI635900, AW939256, AW957194, BG230571, AW379494, BE677698, BG056692, BF512850, AW021444, BF690190, AW664391, AW139560, BG110726, AW874658, AW993371, AI814903, BF934595, AA181281, BF381326, AI376165, BE812324, BE812388, AW815353, AW391289, W28891, AV728400, AV728587, BE349042, AV728581, BF325900, AW337194, AW024107, BE396023, AA633395, BE162632, BF527023, AA588810, AA280897, AA225306, AW391295, AI079706, AW815349, AW615553, AV709840, AI355025, AW815345, AI933698, AA804867, H40915, BF886757, T28873, AA838292, N81045, AI880159, AA114109, H28176, BF961849, AA324213, R59225, AA683224, AW469170, BG057112, H01864, AW880763, AA937395, AI358224, W28580, AW246848, AA324217, H11123, R94484, BF874169, AA085617, BF928701, BF874235, AA085638, N36164, BF874174, AA324212, AW498678, AW067997, AA062605, R94485, BG025843, AA134213, H49769, H27022, BF805105, BF957582, AL535893, T16201, BF934521, AA350507, H20777, BF932804, AA280980, AW798119, H11229, AV737823, BE206328, AW248633, AA363975, W27715, H22592, BE833306, AA324216, BF447502, T15660, BE833364, H28112, H01863, R86196, AA487774, AA114108, AW385117, D51308, AA350426, H17100, T60117, D56054, R48122, D53610, AA304177, H93755, BG152466, AA826966, H61236, H85695, H40957, R44085, D51453, D53774, W07855, R78317, BF868560, BE714884, D54618, T52550, BF923220, R33264, BE208564, R36346, AA531190, R23239, T16142, F03239, R77946, AI699038, AA308600, R38937, R69514, BE812147, BE315213, AW058016, R33115, AA531179, R48009, AI867014, T03351, BE833265, AA307648, BG015610, AI906574, BE561639, AA350885, BE271301, BF445731, AA327459, AI906575, AA335642, BF803379, R28604, R48570, H30153, AW945153, AA350733, R28687, D51827, R50396, BE707678, R48669, H61237, BF844403, BG055063, R35977, BG252221, BF926656, T60235, BE833079, H93754, AW883909, BF753805, BF445655, D52027, R69383, AW298249, BF844409, AA317457, D51335, BF844405, R46848, H30776, AA747462, AI583318, AW800460, F10359, AA345500, W23224, R44794, BF844410, R42513, AA809531, R47759, BE019728, F07289, AW950062, BE771559, N44157, AA373489, BF093102, AW885353, N69784, AW885226, BG007722, AI358239, BF771401, R23314, R28550, BF933179, AL110273, J05243, U83867, X90845, J04828, X86901, AF084186,

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HSXBH24	169	981029	1 - 2428	15 - 2442	<p>A1052508, BE048691, M79221, AW338514, A1262660, AA953663, AV726620, BF752825, AA813125, and A1373503.</p>
HOF AE61	170	981108	1 - 1219	15 - 1233	<p>BG033389, A1393309, AW005351, A1807923, AW960185, AW166132, AW664889, AA194090, A1916382, A1799077, AW328387, AW340414, AW960398, A1131240, A1188081, AW300307, BF131508, AA855025, AA287690, A1694793, A1138878, A1362805, A1198516, A1131388, AA287658, AW139698, BE551852, AA934428, A1701814, BF056959, A1824988, A1680753, AW328388, AA308513, A1654495, AA304908, A1955554, AV741520, BF111228,</p>



HCFOF82	171	981272	1 - 1549	15 - 1563	BE673760, BE673856, AW087574, AI630546, AA062563, AI969069, AI309588, AI266070, AA987983, AI675830, AA960973, R01958, AA973643, AI990363, BE671742, AI741149, AW138983, BF874358, BG057469, Z63217, Z62190, and Z54706.
HOCMT79	172	981309	1 - 1580	15 - 1594	BG026326, AW966939, AW967551, BE737753, AI435412, AA250982, AA811466, AI376343, AI081045, AI742225, AA131095, AA131031, AI942351, AI341938, AA489627, AA993407, AA489728, AW473525, AW268683, R91619, N98926, AI085828, BF082425, AI168315, T78254, AA250983, AA320897, AA454806, BF935477, AW380400, AA864917, W31152, AW514550, BE003760, and AL133558.
HKAEI03	173	981319	1 - 452	15 - 466	BE798445, BE304432, BE731636, BE897199, BG255861, BF979006, BE812965, BE728469, BF128024, BE263640, BE727056, BF358932, BE206746, BF942861, BE540525, BF311992, AW362926, R67305, T33893, AW945345, Z46204, AA324589, AW965329, AW965323, AA324404, T80030, H50913, AA281511, AA333367, BF381111, BE816128, T08567, BF991518, R18797, AA332977, AA687499, BF946438, BF822854, AA223464, BE796302, BF917604, AW392506, AW601333, AW372325, AW601316, AW601334, AW372336, AW392504, AW392498, AW372308, AW372323, AW601317, BF725792, AR087892, U32575, and AF055006.
HOCPO31	174	981593	1 - 1686	15 - 1700	BF342305, BF972034, AV702899, BG250659, BE875013, BG255188, AW732994, BF969129, BF973001, BF130310, BE779851, BE268549, BE783925, BE272577, BG024907, BF127762, BE784922, AI751567, AI138643, BG027985, AI564787, AI131276, AA010288, BE464595, BE858428, AI810680, BE256739, BF431981, AI312112, AI659460, BF964885, BF038601, AW614586, AI918066, AI421103, AA159852, BG036944, AA143643, AW131612, AA577070, BE170902, AW418672, F29120, AI885777, AI540181, AI889585, F36716, AB037839, and AF006043.
					BF344523, BG120897, AI928341, AW026244, AL119974, AW003141, AI953528, AW004077, AI803375, AW001409, AA716616, AA425741, AA677488, AW594550, AI193181, BE349215, AW795298, AI262269, AW297973, AW592480, AI042286, AI436208, AI126751, AI149281, AI167937, AI187153, BG006418, AA885372, N53016, AI962663, AI143577, AW242268, AI049776, BE677119, AI818483, AI272839, AA595397, AI032066, N78497, AI742227, AU134204, AA938952, BE041590, N73656, H00225, AI187185, AI986359, AW152033, AI032073, AI302095, R77880, AW128839, AW594571, R94775, AA806624, H24559, R64451, T09483, R94950, AW957178, AI252768, H17531, AW193712, AA057787, BF061972, AW296092, AI435183, H00177, AW340042, AA535123, AW079257, AA834425, AA595382, AW662791, AI949751, AI968910, AI806704, AI954639, R34244, H21209, AA047604, R94693, F10899, R35571, H22912, AA425233, AA931668, R63839, R39530, T77481, BF357906, AW401504, R55754, BG058398, AI802542, AI440239, BG110684, BG179993, AI869367, BF527014, BE048026, BF725868, AL036631, AV715331, AW071417, AI500077, AI269696, AV650703, AV682479, AI758437, AW087445, AV715263, BF868489, AW071349,

AI270055, AI608936, AW827249, AL135661, BF792740, AI572676, AW303152, AI497733, BG257535, AI475371, BE018334, AI868831, BF727091, AL041573, AL119791, AI636456, AI612913, AV756122, AV703695, AL036274, AW051117, BE785905, AV681951, AL036361, AV682787, BG260037, AL040243, AI934036, AW301409, AI682743, AW129659, AL513999, AV729890, BG164371, AL119863, AV757455, AI702406, AI679504, AV652906, AL079963, BE047852, AW104724, AA640779, AI281837, AL045500, AI309401, AI564719, BF054877, BG222103, BG031815, AI343112, AI619502, BF882343, AI349598, AI318280, AW169653, AW026882, AV757737, AV733470, BF885675, AI345735, BF812938, BG109270, AL514085, AI433157, AL036146, BF812961, AI811344, BE048071, BE781369, BF036115, BF724691, AI349957, BF793644, AW274192, BE887488, BG165051, BF726451, BF726421, AI567360, AI433976, BG027280, BF795712, BG180034, AI340582, BE964700, BF727212, AI536685, AI934011, AI282281, AW075351, BF725644, AI513907, AI440426, AW148320, AW074993, AI349614, AI812107, AL119828, AW170635, AI281779, AI538716, AI349004, BE884130, AI569583, AI285826, AI312152, AL515191, BF971016, AV717295, AV755415, AI349937, AI499131, AW268253, AI633308, BG114248, AV755668, AI863014, BF343172, AI567351, AI620284, BF872670, BG107847, AW089572, AI348897, BG180996, AI862144, AI500659, BF793324, AI862142, AW090013, AI207510, AV758110, AV713079, AV733397, BG112879, AF038203, AF217798, AF290472, AF015037, I48979, I89947, AB052191, AF116631, AL117460, AF113694, AL110196, AL133640, I48978, AF090900, AF116646, AF130104, AX019230, AL122050, AL050149, AL133016, AF113690, AL442082, AF116688, AK025084, AL050116, L31396, AF078844, L31397, AF113019, I89931, X84990, AL110221, AX019229, AL122121, AL049314, AL137557, AF116644, AL442072, AK026855, AF218014, AL117457, AB019565, AF130082, A08916, AF090934, AL389978, A65341, AB048953, AF225424, AL162006, AF090903, AL049452, AL122093, AF113677, AF116691, AL162083, S78214, AR079032, AF090943, Y11587, AF118070, AK000212, AL133075, AL157431, A08913, Y16645, AF130075, AL050393, U42766, AL133606, AF106862, AB048964, AK025339, E07108, AL137459, AF158248, AF119875, AF113691, AF113013, AJ242859, AL359601, S68736, A93016, AK024538, AF119909, AL133557, AF116639, AF130105, AF138861, AL137527, AB041801, AF130059, AB049758, AF111847, AF177401, AF090901, AF104032, AB047615, AR087170, AF113676, AL050146, AF146568, AF119878, AF113699, AL133560, AL390167, AL080124, AF219137, AF116602, AF125949, AL050108, AK026045, AK025958, AF118064, AX046603, AL050277, AL110225, AF090896, AF113689, AK026741, AK025092, AK026865, AL080060, AL133565, AF130066, AF119899, AL049938, AL133080, AL359596, AF130092, AR059958, AL096744, AL080137, AK027116, AR011880, AL359618, AF130099, AK000445, AK026534, AK026542, AL117394, AK027113, AL122123, AB047904, AF207829, Y11254, AJ000937, AK000083, AK025491, AL117585, AX006092, AB051158, AL389982, A08910, AK000137, AL049466, AK026452, AL359941, AK026533, E03348, AL050024,					
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					AK026744, AF017152, AF242189, AF116649, AL353940, AK000618, AF130110, AK026608, AK026592, AF314091, AF091084, AK026504, AF177336, AK026784, AK026927, AL122110, X63574, X82434, AK027096, AF116682, AL117435, AF017437, AK026959, AF111851, AB048954, AK026532, AK026647, AF125948, AK000652, AL049464, AX026824, AX026823, A58524, A58523, AL133093, AK026583, AL117583, AL137550, AF079765, AJ238278, AK025772, AL359615, AL137283, AL050138, AK024524, X72889, AF175983, AK026353, AK000323, U91329, E07361, X70685, E02349, U00763, AB034701, AF119871, AK000432, AF097996, AF260566, AK025967, AL049382, AK027204, AL122098, AL049300, A77033, A77035, AL049430, A08909, Z82022, A12297, AK026086, U35846, AK025391, AK025414, AK027164, AK000647, AF118094, AF183393, X65873, AK026528, AB052200, AK026947, AF130077, AF116610, I33392, AF116654, AK026480, AF260436, and AK025484.
HAOTG88	175	981606	1 - 807	15 - 821	
HVCAH21	176	981768	1 - 746	15 - 760	BF316070, BF568141, AV758470, BF527619, BE314804, BF969586, BE409471, BE410535, AV733489, BE261170, AW157185, A1928869, BF304497, AW024568, BF971396, BF310503, BE296966, BF980412, BE408549, BE884399, BE386397, A1907018, AW440484, AA883920, BE793077, BE794471, BF206989, BE877585, AA496679, A1378856, BF311371, A1859291, BE350719, BE895663, BE885969, BE315547, BF241672, A1817825, BE793139, BF210205, BF216772, BE733918, BE897650, BE312906, BE905785, BE879978, AW516581, BE382725, BF038020, BF026271, A1624337, AW732541, AW674196, BE262376, BF237436, AV710278, AV740622, BE899283, BF206520, BE276874, BF206851, BF237515, BF243039, BE313650, A1024995, A1174779, A1572642, AW163157, AW651789, AW732534, BF125793, A1025126, A1474128, AW474610, BE547663, BE831015, A187250, AA877228, A1267915, AA886988, AV733930, A182921, AA642996, AA306692, BF126019, AV741980, AA075599, BE263229, AA181154, BE831027, AV756250, BE205781, AL526932, BG118384, AA075346, A1929036, BF734890, A1400538, AA316049, A181153, AA526075, AA315701, BE709954, AA098806, AV727129, AA130645, BE218789, A1421479, AA482798, A1144352, AW022366, BE871748, AA451691, F36272, AA722490, A1015274, A1860627, BF767068, A1476031, AA196855, A1076945, AA601896, AA603149, AA037796, BE792238, BF674456, A1266715, BE932205, N53005, AA307818, AV727405, AA125759, BE710240, A1194072, AV764534, AA210871, AA130034, T74180, A1985806, BE709957, AV735365, AA070953, AA714540, AA453235, AV744480, BF030579, AA130033, BF239974, AA443652, AA385659, AW583010, AW675307, BF966331, N52289, BE045155, A130615, AW277116, BE645844, AA912073, BF184415, AA856876, AA478103, AW276117, AL527098, F25881, BG117430, AA065190, BG028557, H49982, BE005862, A187382, A W270600, F24478, BE792009, AA076185, BF091615, AW371216, AA725739, AA878729, N30376, AA365073, AA602423, BF091064, F24829, AA484666, BE870423, AA885827, AA745043, BF091625, AA156093, BE044822, BF375830, AA398035, F27966, F34663, AA861214, AA085547, AA371299, AA992886,

					AA729149, AA125927, R21220, AI309129, BF083672, F28738, AI194071, AA385118, AA522760, H50024, BE938043, F34023, AA075894, BF957591, F27814, AA300065, F22266, BF088891, AW878387, AA928593, BG116587, AA366973, T64054, BF733185, AI468223, AA037795, AA988828, AI201346, F18153, T85727, BE925026, BF733197, AI424577, AA679881, AW191609, BF773420, F01150, AA181512, BE710233, AI201340, AA368477, AA070952, F34662, BF591747, AA341039, AA437360, AI659806, R21219, AI630052, AI906509, AF044956, AF067168, AX015054, AK026538, AF261090, AX014836, AC008085, S82655, AB000618, Y16001, T90822, H44903, R97009, N91532, AA197104, AA213438, AA427624, AA541521, F16918, AA953278, AA447037, AA476302, AA481825, AA433825, F00472, and AW271394.
HFPCK56	177	981812	1 - 1934	15 - 1948	BE739833, AV751551, BE539375, BE879961, BE619356, AA012925, AI690904, AA418407, AW028084, BF061035, AI949671, BE219361, AA449061, AI955218, AA772167, AW771435, AI305287, BG056669, BG122658, AI039957, AI796800, AI421026, AW952787, AI689738, BE857334, BE797251, AW373177, AA037175, AI680796, BF001323, AI360089, BE440106, BF438532, AI568970, BF223290, AW299760, AI948837, AA418504, AA410416, AA976077, AI925315, N56916, AI744545, AI186166, BF344446, BE545371, AI801467, AI560863, AI307790, AI620925, AI685502, AA931566, AW589991, AW373172, AI094972, H22670, N44951, AW026324, AA772572, AI049895, AA449773, BE876258, N39575, W27237, BE878083, N33168, AA469378, AW028003, AA402063, AI276817, AW803238, AA351859, AA861181, AA938412, AW079992, AI311559, BF907727, H96974, AI888644, AA151221, AA351860, AW139343, AW130580, W32509, AA937530, H22687, AI813495, AA410273, AA993422, AA687549, BF941191, AI143750, W27206, AW373182, AA340324, AA044269, AI860157, AA151220, AI370443, R48542, R53630, H14486, AI271975, AI140110, AW593928, R12193, AW275061, W93548, AA321771, AI611136, W32606, T66931, BF941785, AA758353, AI581671, R48627, AA398924, AA349145, AW138501, BF527602, R96451, AW515323, AI674456, N59828, AI918973, R96452, AA991280, AI985395, AI687472, AI268792, AA338948, BF747204, AI280425, AI370507, AA991278, H27505, AA142905, R12929, AA410417, AI284737, T83253, W27541, AA364215, BE719110, AI880036, R62328, R51963, H27578, T66932, AI961564, D54538, AA847693, AA338947, BE538557, T49336, AI360057, BE939130, AI351186, BF818515, H04226, AA044169, H02921, AA026556, AA069380, AW138557, R62327, AW118418, AI198091, W96350, AI424187, R39917, AI868856, T10481, BE964453, BF507638, AA847337, BF735896, N72776, T90723, AI873143, AI682149, AI419753, AI472343, AI394598, AA436364, AA652885, T49337, BE002485, N46721, BE620017, BE622776, AI335238, AI810464, AI927142, AA069327, BE787445, AI078649, BF987031, T11055, AI564318, AX015375, AL162074, AB042237, and AF099664.
HAOSJ58	178	981859	1 - 1131	15 - 1145	AL515972, AW029556, AA004208, BE883613, AW015902, BF802700, BF666138, AI917287,

					<p>AU149521, AA007410, BF791634, AA251650, AV716889, AU153411, AU151309, BF795834, AW474709, AW967661, AI247962, W58247, AI241375, AW594337, AA251538, AI492247, AI598036, N72095, W58248, AA603659, BF804913, AI431332, AA424023, AV744248, AI656462, AA664303, AW590631, AW592235, N23125, BG115061, AW105622, BF056545, AI913221, BG180121, AA886810, AA679595, AI373555, AU149339, AI380841, AW129016, Z39592, W02366, AA189143, AA777004, F02874, BE926666, AW731774, AA768164, BG122759, BE501179, N73304, BE926735, AI521225, BF737731, AA394252, AA424100, AI963833, AI282264, BG259121, AI476066, AK000638, AK024266, AF071592, AF277375, AF241316, AF179308, AJ271784, AK022717, and AL133073.</p>
HOPJT48	179	981862	1 - 336	15 - 350	<p>F20667, AL514627, AL036146, AL513553, AL513597, AL513907, AL514919, AL513999, AL513631, AL514015, AL513911, AL514791, AV755668, AL514691, AL513977, BE965014, AI475817, AL513951, AL515191, AI469532, AL514087, AL513693, AL514867, AW085799, AI349772, AW074869, BE887488, BG109270, AL513713, BF793187, AL514063, AI500077, AL119748, AL514473, AI696846, AL514983, AI567632, BG112879, AL043326, AI702406, BE047952, BF793324, AI888953, BG110241, BG036846, AL515413, AW071349, AW071417, BF970446, AI537303, AV681618, AI349645, AL040243, BF817926, AI432969, AI800453, AI800433, BF882343, BG058398, BG179993, AW169653, AV682222, AV681630, AI521012, AV682252, BE969709, BG257535, AW169671, AW827249, BF883916, AI340582, AW301409, BG110684, BG260037, BG180996, AL045500, BE965891, AL513577, AL047763, BF816811, AW274192, AI620284, AI758437, BF812933, BG058208, BE048071, AI637584, AI349004, AI336685, AI568870, AI499463, AI249257, AI250293, BF970162, BF724691, AV756150, AL121365, AI702433, AI433157, AI224992, BE018334, AI580190, AI590128, AI868831, AW103371, BF792469, AW104724, AI682841, AW087445, BE781369, AI633419, AI538716, BE966388, AI498579, BF039003, AI866002, AI802542, AI433976, AV756328, AV729890, BF795712, AV709517, AI445025, AI564719, BF971016, AI349933, BG031815, AW238730, BE964812, BE964741, AI348897, BG168696, AV717299, AI697137, BG178488, AI497733, AW999049, AL036802, AW026882, AL044207, BG110517, BE964700, AI866608, AW162071, AI281773, BF812961, BF527014, AI539771, AL036396, AL036403, BE048081, AL135661, AI281779, AI570384, AI857296, AV757737, AI678302, BG151247, AW813006, AI269696, BF817392, BF343172, AV711924, AW148320, BF340031, AI275175, AI281762, AV756703, AL047041, AL041772, BE963035, AI064830, AW074993, AI567351, AL038605, AI349614, BG164371, BF726322, BG032208, AW089572, BG260881, AL038778, AW268253, AI282281, AI312152, AW075351, AV758209, AI345735, AI610645, BE047852, AL514097, AA640779, BE876033, AI349937, BE172767, AA613907, AI619502, AI500659, BE964876, AV682266, BG252929, AV681759, AW068845, BE909398, AL513943, AA508692, BE047863, BE904178, BF885675, AI620868, AV655645, BE877769, AL515019, AI636445, AI340519, BG178809, BG035511, AW148716, AV756342, AL514793, AI273142, BE965556, AI818683,</p>

HCFAV61	180	981914	1 - 1221	15 - 1235	<p>AI580984, AV757865, BG250190, AV710479, BG259801, AL047042, AI754897, BF793644, BF107577, AI569616, BG114104, BE967104, AV758668, BG180034, AV757362, BF812438, AL514025, BG029399, AI524671, AL515041, AV682567, AV703695, BG179633, BG113662, AL119791, AI597750, AI572787, AL161802, I48979, AF116631, I89947, AF116646, AF116602, AF097996, AF090901, AB047615, AL117457, AR079032, AF078844, I89931, AL050116, I48978, AF116691, S78214, AF118064, AF130105, AF116644, AL442082, AF116639, AF090943, X84990, AF017152, AF138861, S68736, AF130082, AL050393, AR059958, AL110221, AF113676, A93016, AF118070, AL133640, AF090903, AL157431, AF090900, AF090934, AL050146, AF106862, AF104032, AX046603, AB048964, AF113691, AF218014, AF130059, AF090896, AF130075, AB049758, AF111847, AF119878, AK025339, AL138755, AL050108, A08916, AL133606, AL359596, AL049452, AL080060, AB048953, AF113013, AB041801, AK025084, AK026865, AF113694, AF113690, Y11587, AK026741, AL390167, AL133016, AF113689, AL389978, AF130092, AF130104, AL137527, AL162083, AF116688, AL110196, AK000212, AL359601, AL050149, L31396, L31397, AL117460, AL080137, U42766, AX019230, AJ242859, AL133075, AL159988, AF125949, AL442072, AF113677, Y16645, AL049938, AL122050, AL162006, AB019565, AK026608, A08913, AK026045, AL096744, AF113019, AL049466, AX019229, AF119875, AR011880, AK026855, AL049314, AK025958, AL080124, AF079765, AL133557, AF146568, AL133080, E07108, AK025772, AF125948, AL359618, AF119899, AF119909, AF177401, AL122121, AK026542, AL117394, AF219137, AL122093, AL122123, AJ238278, AC027121, X63574, AL133093, AJ000937, AL137557, AL133565, AK026647, AL137459, AK000618, U91329, E03348, AK026583, AL117583, AK026784, AF116649, AX006092, AF158248, AK025092, AB052191, AR087170, AK027096, AF113699, AK026744, AL389982, Y11254, AL359615, AL359941, AK000137, AK026592, AL050277, AL133560, AF314091, X82434, AF207829, AF111851, AF091084, AK000083, AK027113, AL137550, AF017437, AK024538, E07361, A65341, AK000445, AK026959, AK026452, AL353940, and AK026528.</p> <p>BG033901, BG252785, BE543055, AV722449, AV702154, AA628439, BF668342, BF692352, AI768330, BE894056, AI743632, AV694035, BF437204, BE856844, AW304160, AI337885, AI924514, AA837493, AA426551, AI745073, AI963737, AW821215, BG058671, BF509387, AI242029, BE503709, AI942469, AA160524, AI160326, AV725848, AI912616, AA890454, W95882, AA824442, AW518009, AI701598, AI273641, N93250, AA287410, AA418905, AW449609, AA160567, AA703542, BE671219, BG105483, AA779451, AA111935, BE669882, N32408, AI332415, W17057, W25108, AA810170, AI382034, AI499772, AI589724, AI720736, N56828, AI123003, W95918, AW022386, AA083712, AI808404, AA777136, AI806090, AW965046, BG105254, N89643, AI467879, AI247254, AI784644, AA725064, AA343169, AA569724, AA694506, AI698201, BE542567, AI244592, BF218794, AA287358, D80112, AW973029, AI206216, AW965048, AW889223, BE843684, BE843522,</p>
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HPDWN44	181	981956	1 - 934	15 - 948	and AK000541. BE742303, BE741533, BE746369, AI633237, BE563341, BE563526, BE612816, BF035914, BE880068, BE563212, BF665918, BE880096, BF970136, BE880701, AL529261, BF037170, BE315481, BF316680, AI017752, BE896668, AA431844, AA628903, BE880590, AV710748, AI525834, AV716869, AV733974, BE567737, BF674943, AV713981, AI979057, BF698464, AL529260, AW514732, BF033091, BF674985, AV711087, AV716715, BF540803, BF675525, AV713390, AI935983, BF679768, AA075421, BE613381, AA156298, BF673731, AW088688, BE389957, AV735167, BE389745, AA187073, AW474971, AV740643, BF691116, AI133571, BF195619, AI684301, BF677505, AL525452, BE042822, BE709657, AW936512, AW474519, AA992934, AW189041, BE042854, AI984117, BE276272, BE393478, AW474473, BE388363, AW131622, AV734097, AW196629, AI913944, AA427596, AA187024, N30130, BF217503, D82271, AI191868, BG235916, N39749, AI923021, BG112356, AV713265, AA075422, BG259987, AW404378, BE813241, BE813177, AW149049, AW369486, AV726476, AW369495, AA442647, AA669065, AI367852, AI633284, AU132643, AA081139, AI554354, AW951432, AI560878, N25849, AI416993, BE176663, AW074176, AA446705, AA496549, AW512858, BF094963, AW991489, AW991644, BE813140, AA315748, AA878888, N23559, W19707, AA729416, AA621292, BE567961, N36654, AA069715, BE568443, AA493626, AA069692, AW938005, AI187152, BF732743, BE176346, AI185034, AW166402, AA593797, AW385485, AA186648, AW021630, AA437347, AI221791, AA630449, AW937966, AA081278, BE122891, AA436888, BG167398, AA156984, AI312688, BE875189, AA316034, AA316517, AA479768, AA181039, AV733234, W52260, BE176396, BG012035, AV750759, AW264168, N24368, AA631420, AI923459, AW363902, AV703750, AI198050, R98410, BE179786, N59644, AW069390, AL047606, N44880, AI686995, AI090375, AL525651, AW796539, AV654997, AA187522, AA229717, AA429684, H16005, AW994708, N35742, AA628994, AA630441, AA977956, AW798571, AA847636, AI074223, AI034134, AA583504, AA782407, AI291901, BE710000, AV711820, N77857, AA993826, BE536583, AI568185, AI434356, AA169685, H53260, W05819, AI367001, AA757584, AA156678, AA317301, AW582891, N42163, AW378113, AA230074, AA335935, AV651342, AI719389, AV712994, AW378105, BE716145, AA335859, BE707628, AW378118, AA281403, AI312689, AA581804, AA432128, AA335879, AA890245, N35687, AI674105, T50033, AI085540, BE697023, CI7051, AA384518, AW378101, T93581, AA912450, AA361889, BE840484, BE169354, BE707639, AA446578, N44791, AI687083, H85400, AA923554, BF091266, BE840494, T86063, AA641500, R66319, AC005479, X67698, U25748, AI8921, X78134, S77411, X85799, AL133076, AL122101, AL133655, AL133020, AL133053, AL133074, AL133049, AX040958, AX041002, AX040974, U30290, EI3998, AR015970, M37278, AX030435, AX015526, AF126531, Z69719, AF002985, AR055519, AR034821, S56141, T92154, T93222, T94671, T89488, T89660, T83699, T85048, R01007, R25764, R33756, R39758, R62496, R68141,
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HOVJY54	182	982032	I - 1118	15 - 1132	R74261, H15768, H42468, H42681, H43449, H60096, H69969, H71589, H85394, H98245, N28549, N40132, N40844, N54906, N78197, N99645, W32944, W38819, W46910, W56106, AA025797, AA031691, AA035536, AA130026, AA149910, AA157483, AA281356, AA532481, AA603556, AA610276, AA617732, AA627954, AA837359, N85557, AA431114, AA708116, AA725139, AA845939, T11351, A1244072, A1308158, A1220771, A1632782, A1859690, A1811046, A1950900, A2025993, and A2055299.
					AL536886, AL519771, BE903122, BE906714, BF981167, AL529998, BF980868, BG110444, BE906350, BG026745, BE733132, BG118469, BE908645, BE281012, BF527761, AL529999, BF204049, BF527895, BF338699, BF527959, BE896386, BF346362, BG179270, AW373882, BG121683, BE902906, BF339518, BF528481, BE795781, BE797253, BE264544, BE793598, BE799039, BE395716, BE904642, BE798297, BF129057, BE909217, BE797464, BE791245, BE798589, BF317485, AW577397, BE259895, BF337918, BE798842, A1366141, BF345330, BE793570, BE254266, BF689031, BE387799, W48799, AW249723, BE736728, AA121648, BF915406, W79098, BF058087, BF434845, BE266716, AW245243, BE275433, AW965510, A1420864, BE501218, AW958156, N30494, AW166500, BE274757, BE562577, AA523509, W74502, A1421445, BE274734, BE542936, AA076659, AA309806, AA602391, AA947286, BG056181, AW148931, BF827786, C14268, N99361, A1367349, BE266342, N59225, AA335673, AW518636, BF750898, AL120945, AW137008, A1936982, A1916893, AA335414, AA336127, BF338054, A1769470, A1337000, AW206563, W31030, A1419527, AA371822, AW006577, N98776, AA335239, N76692, BE645990, C14269, A1572122, A1368200, AA641497, A1634762, BE150214, A1684498, AA827390, A1217398, BE150209, W49625, A1081813, AW206959, AW607363, BE743774, AA725340, AA079566, A1672387, N34422, A1766926, AA478173, N48657, T11147, A1365401, BF221855, A1950175, A1813446, BE466923, A1382536, A1382559, AA659150, A1420810, AW900866, AA357437, A1565511, AA478017, A1800023, BE673470, AW615779, AA773507, A1362447, A1242987, AW183593, BE673583, A1399691, A1738446, A1243140, A1659508, H16643, BF438348, A1651868, A1805041, A1568339, A1823968, AW451053, AW137813, A1927588, AA631086, A1699620, AA077819, and L07392.
HLD0G74	183	982042	I - 870	15 - 884	BE741661, BE733571, BF685462, BF984053, BE745150, AV686105, BE792465, BE901550, BE515104, BE884515, BG033955, A1052336, BE312803, BG178966, BF794342, BG036584, BE544000, BE746597, BF337890, BF038967, BE264172, A1831045, BE874094, BE910663, BE733667, BE264374, AW170205, BE544180, BF127998, A1309846, BE539160, AW160727, BE787749, BE787345, BE271779, BF667331, BG257671, AW157143, AW440255, BF205294, BF183127, AW583332, BE784901, BF671774, BF115955, A1857442, AW583701, A1560800, AA582176, BF244048, A1824142, AA485962, AW025617, AW516053, BF204148, AW439339, BE786757, BF667242, BE278628, BF130358, BF030011, AA854126, BF219377, BE271039, BE855730, AW513598, BE297318, AW439387, AW162229, BE297859,



						15 - 2803	1 - 2789	982197	184	HE8MM52
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HJBCC19	185	982465	1 - 1554	15 - 1568	AL529581, BF793008, AW968792, AW958616, AI005133, Z78392, AW665074, AW572797, BE910519, AA311683, AA227581, AI961773, BF311030, AL529580, AA490975, AA580009, BE857081, H15751, W88486, BE011902, BE011961, AI669828, AA378108, AA203400, AA215739, AW297449, BF512524, N34147, and AK000516.
HODAA93	186	982618	1 - 1010	15 - 1024	AU134734, AI921858, BG035733, AW503819, AW502845, AW393515, BE463976, BF085697, AW590049, AW025827, BF927064, M78377, AU135081, AW503556, AW999737, AF002223, U58032, AK001816, AJ224979, AF057354, AF073997, AF125314, and AK023451.
HSPSI74	187	982764	1 - 1578	15 - 1592	AU118627, BE614379, BG109394, AI051622, BG035128, BE745111, BE747176, AU133917, AA977180, AI828930, AU133984, BE906377, AI928364, AI189753, BE621857, BE904639, BE907348, BE788794, BE879963, AI819390, AI445461, BG167065, BE790436, BG119322, AI453743, BE619041, BE621186, BE620997, BE439796, AI983655, BE908365, AI685095, BE908977, BE884393, BE613669, BE789335, BE879041, AU135866, AI633575, BF037650, BE910282, BE906666, AI564644, BE547180, BG122252, BE737005, AI925607, BE905184, BE785244, BF036140, BE617891, BE906281, AW071625, AI591358, BE906618, AI720939, AI804422, AW080238, AI250777, AI678712, AW338147, BE392486, BE881236, AI665838, AI963432, BE874626, AW192593, BF126211, BE897209, BE974032, AW383999, BE548372, AW510672, BE546656, BG113740, BF105867, AI262930, AW372926, BF037109, AU137549, BE904461, AI694111, BE548097, BE785027, AI346835, BE877056, AI927769, AA292956, AW629505, AW262737, BE879732, AI161312, BF791201, BE044033, BF790033, BG165112, AI696905, AW513200, AW008570, AW651691, AI871950, BG122807, AI377596, BF674901, AA083510, AI597801, BF691383, BE617437, AW629109, AI093510, BF132064, BF382972, BF222820, BE543834, BF184069, BF573710, AI240988, BE867124, BF690916, BF195127, BF593608, BF182976, BF184281, BE905927, BE501957, BE880450, AI911921, BF106087, AI424384, AI591386, BF215412, AW820297, BF131142, BF247995, AV726627, BF102675, AA479712, BF818868, AA877242, AA706057, AA315188, AW961686, AI148698, AI677934, BE564028, AV732963, BF978564, BG169978, AW583735, AA948565, W52095, BE619741, BE961220, BF031297, AV654555, AA524526, BF687984, BE385852, BF102872, BF246934, AA088439, BF979244, AA843108, AI248307, BE156265, AW015724, AW572531, BF690647,

					<p>BF670998, AA889018, BG118773, BF687915, AA479834, AA626058, BF571504, AI285092, AI591384, W25540, AW205937, BE349186, C17732, AW959385, BE971477, AI027865, AA733014, AI955858, BF572812, AI492554, AA844898, AA452515, BF2444568, AA453027, BE219784, BF126097, AI671727, BF184176, BF247378, AW779725, AI129575, AA903050, AI567995, AA404570, AI470033, BF576011, C17963, BE825569, AA088544, BE543766, AA662517, AA699452, AA723200, AA043217, AI075878, BE961124, BF057147, BF676177, AA147228, W52847, AI990245, BF673172, BE963891, AW673152, W38161, AA627686, BF575906, AA113196, BE182595, AI799814, AI333170, T66110, AI972739, AA190873, AI859160, AI446615, W45410, BE182608, BE619182, AI990827, BE327120, AA182640, BF678404, AI298935, AW085158, AW471421, BF243031, BF570900, AA682601, AW103470, AI242230, BE044134, I34297, U34276, AK023364, D16854, X75684, D86467, T55840, T65026, T85378, T97664, R21752, R21800, R38028, R38114, R79190, R79933, H27252, H28594, H38179, H52504, H61762, H64985, H64984, H80983, H64985, W19298, W60075, W73887, AA010631, AA011222, AA035067, AA035576, AA037696, AA037722, AA043216, AA085492, AA129574, AA136658, AA136645, AA148284, AA155661, AA157944, AA190427, AA190472, AA190966, AA191414, AA192519, AA250778, AA502832, AA581093, AA603586, AA837326, AA962397, AA988297, W60032, C05782, C06111, C06123, C06365, C17476, C17504, C16377, C18304, AA649494, AA291465, AA411100, AA421678, D11921, AA478271, AA478328, AA487893, AA486595, AA719173, AA722206, AA724739, AA757735, AA989662, AI032569, AI061065, T10930, Z25898, Z28771, AA953883, F09579, AI244845, AI245632, AI246953, AI249545, AI251817, AI254320, AI261359, AI270788, AI270830, AI275372, AI306933, AI309876, AI334860, AI340796, AI348877, AI363829, AI453453, AI446740, AI432033, AI472527, AI468237, AI500576, AI565439, AI582462, AI224222, AI189366, AI650338, AI349390, AI589264, AI621320, AI686240, AI692846, AI693030, AI738844, AI745717, AI769516, AI798415, AI798502, AI800106, AI823466, AI865912, AI872628, AI918453, AI918523, AI950693, AI927217, AI972899, AI985583, AW016166, AW088968, AW197954, AW242958, AW275048, AW191997, AW194272, and AW300456.</p>
HCEHZ42	188	983008	1 - 3628	15 - 3642	<p>AL537881, AL517309, BE735051, BE901285, BE616892, BE733533, BE793731, BE733509, BE545486, AL517310, AI745249, BE734335, BF526598, BE779600, BE796507, BE798600, BE886723, BE617349, BE734009, BE280110, BE901683, BE276201, BE891303, BF342463, BE729254, BE910567, BE884594, BG255411, BE279129, BE888923, BG031148, BE537150, AA604400, BE734392, AW964738, BE259025, AW327313, BE616860, AW385802, BF108767, BE903733, BE349111, BE257437, BE328784, AW156910, BF060707, AW246117, BE263626, BE392648, AI620896, BE252755, AW732968, AA398262, AW778939, BE349863, BF436950, BF964072, BE799126, BE962236, BE781464, AA602489, AI566556, BF954806, AW249583, AI160402, AI809859, BF766680, H21144, H51462, BE616366, BG257069,</p>

					<p>AI608637, W37225, AW103894, AA984583, AI860074, AI251822, BF964921, H50198, H50199, AI637978, AW236505, AI553932, AA308870, AI341897, W37565, AI571251, F26897, AA922512, H38486, F34532, BG152624, H09117, R24306, F02992, R44903, AI624869, H29803, H46459, H47000, BE277457, AI932959, AW244024, T23597, AI814804, AA707234, AW385702, F13335, AI702387, BE834031, H44917, R40088, AI003681, AA548650, T78815, AA523188, F04394, T40327, AI332972, AI363841, Z43697, BE559682, H42170, AI678524, AW105674, BE747069, T41190, H51420, AI283350, BG014941, AA729769, H38475, AA889494, R12936, H09467, AI277180, C02213, H38470, AW844667, F13332, AA779046, AL537882, BE302833, BF764692, BG112124, H21101, BF333843, AI653323, BF949218, AA399433, H42992, BE172552, BF766013, BF948977, BE939200, AI955921, AF062360, BF514170, BE771818, I76198, AJ238509, AK026112, AI671155, and AW003308.</p>
HDPVU15	189	983592	1 - 1393	15 - 1407	<p>AL526272, AL525155, AL522999, BF966555, AL526230, AL523065, AI608975, AL525156, AI356555, BE738267, AL522957, BF940042, AU132734, BG036876, BF207755, BE866533, BE999964, BF216980, BE567528, BF210168, AW006213, AA506981, BE748710, BF238741, BE565646, BE567849, BF028372, AI097642, BE671753, BF669347, AA481159, AI365242, BE263776, AW613149, BF207815, BF062845, BF207601, BF184549, BF029492, BE748034, AA600213, AA570018, BF677978, AI380165, AW474849, BF029410, BF212774, AW327326, BF242826, BE782106, AI189808, BF673083, BE958173, BF691558, AW327647, BF242098, W40404, BF183977, BE566862, AA521171, AI824172, BF701792, BE564186, BE737955, AI630337, AI276975, BE762520, BF183896, BE865656, AI078467, AA706141, AL047101, BE502602, BF207203, F08084, BF241687, BF246011, AI638395, AW947427, AW236896, AI076444, BF575292, W92066, AI370021, H54752, AW083735, AA308891, AA971116, AW952287, BF745131, BE563907, BF907533, R93244, BF431085, AA834180, AI220183, BF754428, F04320, BE566548, BF381304, AW750302, AA193557, BE075259, AW378464, AA847005, BF213891, AV688842, H54751, N93924, AV687331, BF745923, BF798270, BF214281, AA290913, BF209678, BF381625, AW606584, AW384533, AV699554, AA301337, AL042687, AA569904, AI189079, R57070, N85824, AA828789, AW979044, W92049, and M87339.</p>
HT5GC28	190	984008	1 - 409	15 - 423	<p>AW629796, BE907694, AI879258, BF125522, BG165445, AI991040, BE265179, AA306760, BE386666, BG033049, BF569429, BE616679, BE961094, AV752683, AA554831, AI904451, BF345953, AI563938, AA421977, AI908006, AA310481, C04874, AA325475, AA641261, C04859, BE298529, AI627256, BE876461, BE907784, C03419, AW085607, AI879639, AI907999, AI828997, AW800145, AA702425, AW834911, AW996129, AI348015, AA331368, AV726768, AA633265, AI078778, BE965867, AA477052, BF128018, BE698358, AI246215, AV704488, BE905105, AI356116, BF981367, AC009470, AX011754, X96506, and U41843.</p>
HDABW50	191	984168	1 - 510	15 - 524	<p>AW160956, BG112870, AA181146, AL533095, BE299316, BF206076, AL518638, BG025731,</p>

HAQBH11	192	985043	1 - 1283	15 - 1297	<p>BG027680, BE019254, BF797145, AW160779, AV701299, AL533158, BE254796, BF128863, BE267759, BE618134, BE397759, BF183232, BG034440, BF982019, BG251910, BF797411, AA306380, BE898025, BE897092, BE304609, BE280212, AL533932, BE256616, BE888620, BE257413, BF972257, BF305365, BF303592, AV701256, BE777834, BE785075, AA361278, BE259295, BF033090, BE872617, AL536483, AA147916, BG032975, BG109112, BE616894, Z21306, BF062245, BG170907, BE466819, AU077114, BE542087, BF204786, AA295792, Z20331, AA311755, AA370388, AA381537, BF568489, BE799154, AC027269, X52882, D90344, MI2899, A45915, D10606, S46763, M34665, D90345, AF143497, and AF143496.</p> <p>BG033206, BF342428, BE512834, AL048282, AI879320, BE856361, BF795509, AU151801, BG261226, BG034970, AA744603, AW665535, BE251894, BF109751, AI554548, AA582428, BG031393, AI741757, BE676082, AI879319, AA488479, AW248852, AW406490, BE256937, AL047958, AI004611, AA037421, AA774634, N93305, AA430402, AW249274, AI400297, AI811153, AV722095, AI741768, BF125670, AL047959, AI097609, AI348358, AI221281, AI929211, AI928959, BG059980, AA430649, AI189422, AA429252, N24950, AV763462, BF821350, W84606, W79170, AI807903, BE675976, AA156930, AA156806, AW957268, AL520686, AA918136, BE350569, AI436788, BE465495, AI914409, AA731701, AW007162, AI572971, AI127872, AI086033, AI304732, AI304534, AI304332, AI436606, AI148551, AI273244, W25157, AW732151, AI016547, AI334031, AW245121, AA195312, AA680089, AA706611, AA905742, AA857129, AI935026, W74366, AI475996, AI077774, AI858890, BE618488, AA613374, AI424179, AI572567, BE302299, N37064, AI469806, AA648333, AI310080, AA854601, AA922513, AW469487, AI276775, AW978876, AA904130, BE677872, AA703663, AI832558, AA195123, AW401707, AL520541, F20916, AI434634, AI167203, AA554680, AI015217, AA716603, AI919489, AI400655, AI369295, BF204499, AI096816, AW291743, AI708380, AW510583, AI073623, AI864517, BG235989, AW957984, BF432700, BG027523, AL048281, AI473968, AI142442, H21173, AA010920, AA628365, AA181912, AA680368, W68434, AA535548, AW193651, AA666297, AW970399, AI567256, N33827, AA723469, W88714, AI129518, W02166, AA927718, BF436216, AW129400, BE903621, BE894137, AI937756, BE255000, AI439069, AW085013, AL528761, AA291158, BE618888, AL520685, H21172, AA701980, W88713, AA745783, R60749, BF438994, BE379605, AI266717, AA021053, BF220074, AA352112, AW151019, BE618705, H62602, BG122824, AI985732, BE619838, AA576306, N41653, AA777363, AA329553, AI536627, BE619636, AA364327, BE619554, AA523080, AI968125, AI362972, R16958, W68552, AW082162, H77490, W60381, AW888780, AI239605, H00750, BE778855, BF002315, AI419366, F37003, AA281392, BE252322, R55029, BE539494, AI264447, F33844, BE622622, AV758923, AA927434, AI300497, H95107, H19581, AA995088, AV739146, AL522112, AI254228, AA909383, BE783148, BF964544, AI933194, BE619936, AW206638, BE386528, N67439, AA032085, AV738905, AA906240, W32502, BF664072, N80233, BG026963, BF943594,</p>
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					N88679, W38324, AV739446, BF943595, H77489, BE619403, BF797152, F13662, AV758240, T85967, AA356672, AA827089, AV738715, AA886406, W60290, BE880331, AI565666, AC004148, AF275902, L04636, M69039, X75913, AR001488, AF238300, AJ001101, AJ001102, T75519, T79324, T97266, R00559, R43811, R43811, H19498, W35357, W84587, AA195016, AA256539, AA429036, AA541335, AA886821, N46376, AA090596, AA096370, AA649533, AI350333, AI432739, AI701659, AI866522, AI874327, and AW272778.
HMVAW42	193	985280	1 - 1033	15 - 1047	BE882789, H18418, H18419, BF983783, T98073, BF799367, AK024419, AL049742, D86997, D88269, AC007050, AC002041, and AC007882.
HAGDF03	194	985323	1 - 886	15 - 900	BE743574, BE747360, BF037152, BF037322, BF185217, BF034907, BF035464, BE735974, BE735948, BG177694, AA912117, AI809647, AA904850, BE715907, AW167552, AI146565, BE932773, AA074391, BE932728, AA905581, BF057950, AW197091, BF818794, AW582452, AW362760, AW362834, BE736338, X76029, AF203444, M94555, and AF222762.
HOPKI29	195	985401	1 - 656	15 - 670	AW967189, BF568335, BE876991, BE222939, AA504246, BG249370, BG255913, BF308620, AW328087, BF034851, AW328088, BE793300, BE905639, AI735694, AI095336, BE386578, AA614065, AA569837, AW196810, AA608885, AI653486, AA613913, AI924658, AA613925, AA554728, AI560961, AA719377, AA469078, AA830299, BF038609, AA203548, BG177899, AA614181, AI858312, AA552154, AI200336, AA885917, BE620103, AV754386, AI031613, BE784692, AA081285, AW166322, BE042784, BE791140, BE964673, AA911010, BE048169, BF568842, AA741206, AA081284, AI126452, AA155948, AI138974, AI139507, AA890569, AV751934, BF125381, AI371201, BF125620, AI205847, AA826559, BE714318, AV726932, AI355171, AI191488, AI311103, AA974366, AA632296, AI581287, W19605, BF125603, AI369911, AI052549, AI363011, AW192081, AA724119, AL110319, AA757027, AI492635, AI310711, W80967, AA828873, AA716667, N70808, W35100, AW190632, N93842, N94928, AW206213, AA804201, AW205535, BF222360, AA045330, W40298, AA186411, AA583415, AI299768, N94313, W47097, AI310460, AV739579, BG168459, AI185445, F21331, AA045388, AA602057, N69883, AW263722, AI874123, AA300062, AI133096, AA308875, BE766731, AA188134, W01415, AI192988, AI002735, AI863303, H73006, BE175080, AW603296, AW883548, AV742934, F00800, AI749433, F36662, W80968, F31017, AA303960, AA902606, AA657819, BF214015, AW883024, AA483632, F22498, BE694643, AW800284, BF820314, AA844336, BE702621, AI206672, R48509, AI445725, AI358193, BE646027, AA599755, BF752265, T90159, AV743096, T90057, F26867, AW882945, AW883656, AW375553, T35390, R35896, BF477469, BE085557, F29236, R48510, BF083095, R35895, N44815, N88653, F29357, AA193068, AW883822, N90560, N57064, D25765, AW059723, W20367, C20592, AW883811, AI253621, R29399, AA283439, BF213077, N64284, AW800074, AW882794, AI000414, AW883496, AW883108, AW883699, R57063, AI802283, N98855, AA155903, BE069170, AW385521, AW883325, AW364453, AI332761, AW820144, AW819764, AW819769, AW606771, BE766667, AW883216, AW819735,

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HAJCA11	196	985580	1 - 1282	15 - 1296	AU132390, AU124559, BE900238, BE732404, AU129885, BE080187, BE926773, BG114544, AW500118, BE537542, AU131408, BE789187, BF922033, BE281277, BF089292, BF083954, BE731775, AU128452, AW875091, N87006, N86017, BE295990, AU133348, AW875092, BE207290, BG027252, BE085014, BF242268, AC006509, A58904, U28946, U54777, U73735, D89640, and D89646.
HWAHA11	197	986078	1 - 1131	15 - 1145	AL528672, AL528671, BE740519, BG179875, BE876837, BE409722, BF125146, BE384347, BE905434, AA480075, BE736786, BE386983, BE385086, AI708432, BE909934, AA777273, BF901579, AA455206, AA362335, AA969968, AA427548, BE275509, AW104489, AI799353, AA421632, AI078240, AA427707, AW955562, AA454864, AI310388, BE743523, AW170140, AW089692, AI129255, AA903911, AA362336, BF813903, R72751, R72760, AA554328, AA483784, R48745, AI197789, AA304308, AW591924, AA320293, AA491393, BF541788, AA360465, AW839762, BF818256, BE622335, AA143722, AW591933, BF927574, BE071386, BF754668, BE622797, BE071396, BE967257, BE243667, BE071302, D20583, BE729081, AX041029, and AF188504.
HSAMI43	198	986158	1 - 1595	15 - 1609	AU149573, BF034032, BE278549, BE731160, BF034631, AW236853, BF084841, AU126259, AI761782, AU151440, AU149075, BF699903, AU150909, BE542926, AL527731, BE539229, AI628901, AU150578, AU152956, AI354451, AW386462, AW386546, AW386459, AW386633, AW386541, AW386540, AW386674, AW172296, AW386290, AA496720, AL527730, AW386399, AW386293, AW386545, AW386675, AA827175, BF109445, AA766675, BF572742, BF700363, AW673859, AI039522, BF904724, AI954042, AW386400, BE538430, BE783497, BF361388, BE535955, AW386676, AA496777, AA332056, AW386463, AW401913, AU125409, BF349062, AW386593, AW386404, AU119856, AW794691, BF361390, AI630067, AW468663, AU126032, AW610565, AW605675, BE816416, AA969139, AA625769, AA948540, BE816439, AI829160, BE833448, AW386548, BE011481, BE011489, BE816391, BF767633, AI798526, BE816420, D59324, AW674070, C21288, AI254727, AI648699, AL040011, AI445620, AI927233, AL040241, AI887163, AW082532, AW051088, AI445256, AL043152, AI677797, AI445812, AI783792, BE393784, AL513729, BE964614, AW076124, AW088560, AI471429, BF921295, AW089275, AV721755, AI590575, AI972170, AL041150, AI368816, AI586931, BE883591, BE084795, AI630877, BG122101, BG251076, AI538885, AV733682, AI628284, BF965877, BE620438, AI758445, AL046944, AI249389, AI242246, AW163834, AL119791, AI357599, AW078767, AW827102, AI860830, AI886055, AI301710, AI963846, AW089405, AW149221, AI570966, AI571699, AI433611, AW025279, AI582240, AI500061, BG032919, AI453248, AI620639, AI434242, AV750565, AI917994, AA464646, F32537, AI886123, BG107844, AA838230, AI689614, AI812015, BF033757, BF793462, AI241741, BG109164, BG110577, AI439452, AI537677, AW172981, AI679550, AW104141, BF814449, AI929108, AI950877, AI682121, AI686589, AW166937, BE047691, AI818358, AI566430, AW079432, BE879108, AI184903, AV756794, AI623682,



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HNTCH03	200	986328	1 - 738	15 - 752	AI631653, AW514704, AI683239, AI762458, BE544805, AI952420, AI675981, AI926932, BE536677, H48459, AA780363, R99152, AI049877, AA626759, AL031672, D80008, AP001712, AP000466, AL009051, AC005156, AC006006, AC002115, AC008745, AL121825, U91323, AC025030, AL133244, AL161938, AC007883, AP001630, AC016612, AP001748, AC005531, AC004386, AC002418, AL031597, AC005840, AL159970, AC008747, AL080242, AC002978, and AL031651.
HSUA A20	201	986744	1 - 2257	15 - 2271	AU125631, AU122638, AU124434, AU119564, AL521525, BG108961, AL523942, BG035161, BG251944, BG036436, BF796027, AW853573, BE898956, BG256538, BG119012, BF971387, BF038129, BF665538, BE178302, AI589375, BE292972, BE897915, AW853577, BF983057, BE178464, AI720743, BE743787, BF698180, AA576889, BF344035, BE074977, BG120570, BE074978, BE542431, AU125797, BE074983, BE927446, BF028723, AW664254, AI924017, AA622618, BF699259, AW853635, BF664182, BE773949, AV734594, BE674801, AA780625, BE764622, AW602743, BF751549, BE927448, BE773962, AI632995, AW602746, AI831228, AA127994, AA632633, BE675358, BE855875, AA830571, AW517313, AA460805, AW513297, W80991, BG029093, AA741398, BF082772, AI571048, AI141113, AA946941, AI984475, BF432650, AA652978, AI672687, AI190250, AI678469, AI092182, AA845782, BE927450, AI936315, BF334264, AI075287, BE932015, AL523941, AI597847, W81093.

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HSPAD08	202	986767	1 - 1213	15 - 1227	<p>AW193875, AI859472, A W512687, AI298658, AI683140, A W510341, A W189037, A A075515, AI352215, A A293804, AI634702, AI972816, A A451904, AI204509, B F111273, AI680769, AI206090, A W170346, A W102571, AI491895, AI683354, AI683449, AI800229, A W105621, A W517880, A A628896, A A972922, AI131418, BE393771, AI269897, BE898899, A A477548, A A534766, A A496431, AI128837, A A55137, A A477050, A A563656, B F446212, A W054677, BE208245, AI972158, BE394824, A A432228, A A291675, A A719455, BE394667, A A496562, W67669, A A433859, A A936665, A A452084, A W003747, A A704365, F02471, A A688358, A A292518, A W166518, A A828939, H50634, A A603048, A A075256, A A078977, A A025750, AI609687, B F750539, A A010660, B F035171, AI955963, A A287213, B G150710, B F061263, AI087799, AI459028, A A428593, AI932457, H50635, B F223547, A A284324, W67668, A A327201, A A506658, A A476938, A W772554, BE674284, BE694854, A A722190, A A507349, AI540421, A A010659, A W189604, A A290981, A A969241, AI685657, A A025902, A A406009, A W088425, A A477670, A A402537, A A477179, BE001672, BE382381, BE746798, A A394184, A A477553, BE931271, A W749395, A A290980, F02231, A V705972, A A402896, A A401329, T28367, A W207468, A A079060, AI521428, BE515017, A A477665, A A335459, B F883518, A A405299, BE001677, A A385556, A W779288, A A403038, BE001587, A W467094, A A411029, A A411533, A A908550, A A293236, A A385354, AI963250, A A402928, AI130774, A W995301, BE816517, B F877343, B F877245, H53726, A L031663, A X014329, and A18924.</p>
HFKA32	203	987018	1 - 1853	15 - 1867	<p>B F310989, A A779683, A A778834, BE671061, A V751426, AI055953, B G257892, AI609802,</p>

					AI860306, W27660, R52806, AW195940, AI380154, AV752306, AI174219, AI422421, AV753926, R44985, T19342, Z45051, BF313622, N50668, AA699401, AI912462, Z40782, AV754072, T32252, AV754907, AA716140, AI382444, R20199, AW519215, N50758, BF831401, BG153108, AW748527, AL449781, AL449783, AL449725, AL449782, AL449784, AL449726, AI202657, AV702148, AL121740, AL031652, and S68401.
HHFLU49	204	987071	1 - 1380	15 - 1394	BE792620, BE019329, AA485440, BE793998, AI469092, BE205890, AI191926, AW194434, AI184921, AL035775, AA455208, AW079362, BE269697, AA485606, AI089456, AI332821, AA630354, AA490222, AA454866, BE677870, AA744740, AI392667, AA856590, AA401195, BF529066, AW473066, BE798034, AI825496, AA352810, AA282213, D20119, R85135, AI564870, AA282165, AI453191, T28579, AA348281, R85086, C02583, BF813606, AF245447, AC022154, U48213, and D28468.
HOENX16	205	987112	1 - 3893	15 - 3907	BE891680, BE178297, BE178296, BE178286, AI268332, BE670810, AV707583, BF195477, BE177969, AW951402, AW958955, BE551841, BF445193, H97932, AI741806, AA778568, AW157094, AV646610, BF448214, AI268370, BE551065, AI702945, AI424098, AW451803, AI692508, AW167867, AA628493, BE044558, BG116437, BE218339, AI598189, AI654033, AV653817, AI817262, BE220165, BE467572, AA971551, AW043615, BF109315, AI936744, BE219699, BE219449, AI819358, AI057105, BF448042, BE178117, BE168027, BF434998, AI887913, BF514130, AW119000, AI459272, AW025400, BF434156, AI703246, C06099, AI689853, AW149578, BF058188, AI791586, AI417870, AI420664, BE178000, AA283186, AI703125, AA394164, AI366783, AI377829, BE178101, AW149393, BF940116, AA464856, AA483691, AI951466, AI371041, AI422898, AI566539, BE219820, AI371032, AI199202, AA583355, BF058198, AI089906, BF116136, BF115258, AA977253, AI146316, AW197103, AI094921, BE326470, AA971743, AA994584, AA044947, AI075961, AI393161, AA044943, AI202319, BE327284, BE669883, AI589590, AA972772, AI632940, AA628533, AW341013, AA629360, AI215842, AI039295, AA532381, AA931937, AI076496, AI081377, AW003065, BE856431, AI299481, AA932867, BG149327, AW079999, BF436113, AI376081, AI222964, AI362071, BF061630, BF434279, AA427892, BF115881, AA618566, H98616, AI911958, AI080656, AW028722, AA628503, AA884934, AI184689, AA433882, AI357324, AA405766, N33018, AI356893, AW341785, AA934413, AA434383, AA513037, AI673829, AI376275, BE671351, AW771579, AW152313, AW104344, AA453341, AA994794, AA730790, AI139706, AW163063, BE672575, BF514498, AW139974, AW450904, BF732982, AI560166, AA992454, BF437946, AI268743, BF058175, BF732363, D52937, AA759378, BF448255, BE564373, BE766897, AI350218, AA292346, AW969749, AW263630, N99650, BE219748, AV646822, AI094082, BF431731, AI268578, AA452493, AA577028, AA484850, AW051780, BG149815, AA405847, AI279152, AV723873, AW015816, AI279039, AA230021, AA482694, BE504543, AI383225, BE672185, D62553, T75442, AW966446, AA384817, AI143652, BF514961, BE858120, BE972813, AA001089, BE222561, AA228265, AI205651, AA829807,

						<p>AA332060, BF229130, R80152, Z36959, D44840, A1692586, BE709287, AA668713, AW028893, AA935871, AI311975, AI313288, AW951403, FI3013, F10610, AI910420, AI379372, AA516076, R73731, R73650, AI348747, AI610907, BE180375, D62481, BF438546, AI611925, AW297589, AI784325, D45510, BF054671, BE502727, AI671347, AA621928, BE180154, BF886759, BE180152, AI351256, AA745667, D62330, AI371476, AW451761, BF054866, AL022726, U28368, Y07958, U16153, X75018, AJ001972, AF077859, AJ001971, AF030295, AL133390, AF085889, R20393, R43511, R80886, N71679, AA001053, AA149057, AA464151, AA730651, AA923038, AA934400, D79281, C20741, AA410247, AA410595, AA410596, AA436359, AA454080, AA480072, AA482617, AA709262, Z42701, AI469058, AI188065, and AW297335.</p>
HTFOW71	206	987165	1 - 3700	15 - 3714		<p>AU118585, BE875298, AV682483, BE708209, AW965424, BF031382, AA908770, AW194236, AA863229, AA292918, AI140754, BF130541, AI921186, AW188519, BG149424, AA878230, AI828605, AW975392, AW875556, AI949757, AI803722, AV749448, AW474515, AW474470, AI014812, AI373797, AU158313, AA526126, AA809213, AW273542, AW191931, AV715119, N62972, AI914731, N50836, AI784523, AA935043, AV681975, W04335, AA741240, N79876, AA814785, AW876605, AI000955, AI096936, AA767593, AA827102, AW876602, AW023275, AI014777, AA480539, BE007133, BF961785, AV659835, BG026599, AI358045, BF367902, AW340779, AW379327, AA280431, AW393163, R88194, AV749193, AW516924, AI095334, F17499, AW972832, AA527642, BE765701, AA334408, AA745802, W03745, AA252969, AI241826, W03727, R33831, AA745278, BE173119, R75838, N73949, AI361182, AV749201, N55158, AA096078, R75839, R33832, BE007129, N74169, AI934211, C02132, AW373395, AA253011, AI571875, AW015268, AB018256, AK026643, AK023740, and AF121862.</p>
HTTAG03	207	987262	1 - 1291	15 - 1305		<p>AU130318, BG259774, AU125274, AU128855, BG256568, BG177060, BE257156, AU129041, AI700706, BG024376, AW364136, BE548336, AU128166, AW386043, AW601873, BF525772, BE019700, AU132416, AU127646, AA291324, BE905471, AA179587, AW503906, AW996355, BE747534, BF087827, BE709414, AW197058, W26424, BG257764, R81308, BF754332, BE256391, AU133402, M85963, AW993840, BF754246, AU125115, AW386030, AL121131, AA207003, BE390411, AA332904, BF736085, AV724551, AW373274, AU123386, T09019, BF932018, AU133513, T31784, AU132106, N77135, AU142640, AU128923, AU130530, R18813, Z43001, AU129525, BE694459, T34189, AW975891, F12246, T34191, BF085466, BE719825, BF376318, AU128888, BF968290, BF928373, AW163398, AA985239, T77416, T30644, H14655, BE171681, AA333145, BE887490, BG004439, BG001543, AA972641, BF895334, BG112027, T30285, R34764, R20971, AW503416, T65268, AU132457, BE719079, AV706679, BF895331, H19179, BE295342, BG252015, BE161948, AA156130, BE007849, BF845158, AA429537, BF514515, AU126430, BF929781, AV756829, W96495, BF841516, AA218823, H87691, AA082864, AI989432, AW843600, N56845, BF761493,</p>

HNTN89	208	987577	1 - 1774	15 - 1788	BF899121, AI003240, T78660, BE002101, AA525285, AW340165, AF017085, AF043220, AF043219, AF036613, Y14946, AF038968, AF038969, U77948, AF035737, AF038967, AF015553, AC004883, AC005098, AC005080, AF267747, AC004166, AC008267, AC004867, and AC004878. BG031718, AW513358, BF976544, BF438157, BG032811, BF331293, BG024716, W79562, AL535366, BE884963, BG117015, AI015417, AA195361, AI168363, BF888337, BE736684, BF898627, BE252727, BF092574, BF026987, BF092380, AI313235, AI186042, BF869862, AW803215, BF835770, BF689427, BF002648, BF842552, F01241, BG256421, BF805719, AI460203, BG030479, BF309323, BG256560, BE763786, BG031518, BF922507, AW498536, BF882825, BF988866, BF182880, BE733066, AA452576, BE702993, AW601526, BF027104, BF882823, BF083180, AA195362, BF814079, BE314540, AA343903, BE799669, BF229237, BG257848, BF812714, BG007737, BF229214, BF829579, BE771762, BF827229, BE781509, BF346947, BG003854, BE747136, BE933685, AW499012, BF527029, AA248724, BE899626, BG030023, BG164309, AU141520, AI075687, AW498552, BF025833, BF900113, BE173877, BF912681, BF313647, BF954395, BF757992, AA577565, BG256431, AU118535, AI795846, BE140733, AI795807, AI795845, AI834271, BE140756, AI795820, BF766160, BE278426, AI795809, AI816586, AI816599, AI795804, AI795835, BE140737, BE140735, AI795812, AI795806, BE140736, BE839312, AI795802, BE811847, AI795830, BE772922, AI834270, BE140734, BE140738, BE694678, AI795853, BE140757, BF923079, AI795850, AI795844, BG031631, BE273730, BG176632, BF894840, BF981708, T12220, BE560871, BF348639, AA932665, BE140785, BF851195, BE777506, BF357970, AW177740, BG177284, BE889126, BE294313, BF984543, BE140782, BE707376, AA554454, AA706989, AW845338, BF882819, BE769206, AW580354, AW177756, BF966485, BF375580, AW581253, AW732883, BF203759, AW732860, BE616578, BF923384, BF842532, AA452754, AW607309, BE769218, AI834266, BE168455, BE814247, BF089125, BE082661, BE769200, BF510367, AI905996, BF972638, BE275901, X51466, Z11692, AF079098, AF079099, Y07504, U17362, M13708, E01155, U89415, X15337, X15335, X15336, X13988, Z34849, AC002347, and X04267. AI347165, BE674960, AW262846, AL524881, BF590769, AI479150, AL524880, AI765046, AI954702, AI862166, AW341529, BE671360, AI979234, AA425381, BF222205, AW271374, AI498382, AI350299, AW207600, BF445305, BF939315, AA971011, AA045629, AA047515, AI675480, AI952656, AW136682, AW886735, R94308, AI35217, H92097, AI364888, AI566024, AA676245, T67202, AA885307, AA459915, AA460100, AA906376, AA935669, AA399986, BF590005, AW518625, AW769577, AP000503, AL132713, AF134726, AL122094, AI245661, and AA401402.
HRADQ96	209	987636	1 - 799	15 - 813	AI347165, BE674960, AW262846, AL524881, BF590769, AI479150, AL524880, AI765046, AI954702, AI862166, AW341529, BE671360, AI979234, AA425381, BF222205, AW271374, AI498382, AI350299, AW207600, BF445305, BF939315, AA971011, AA045629, AA047515, AI675480, AI952656, AW136682, AW886735, R94308, AI35217, H92097, AI364888, AI566024, AA676245, T67202, AA885307, AA459915, AA460100, AA906376, AA935669, AA399986, BF590005, AW518625, AW769577, AP000503, AL132713, AF134726, AL122094, AI245661, and AA401402.
HLDCJ16	210	987808	1 - 955	15 - 969	BF110739, AV704400, BG119539, AA905643, AA011185, AW975682, AA730907, AA736634, W70279, BG116516, BF914127, AI751939, AW963708, BE734515, AI242625, AA374275, AI148822, AX046526, AX046525, and AB023209.

HCOPH23	211	987900	1 - 591	15 - 605	AV729764, AA489568, BE938598, BE535256, D63283, AW177206, AA992072, BE843894, BG108043, BE865610, AW592116, AW996479, BF920145, AW996421, BF666980, AW996637, BE568865, BF216333, BE929243, AW950983, AA355341, BF036942, X89478, and A84106.
HEEAQ78	212	988159	1 - 609	15 - 623	AI203969, BE296775, AI694104, AW006595, BG259789, W19306, AI202279, AW117484, AI244102, AA360001, D31227, AW173045, W30958, D31245, W79314, AI968556, N27070, D30986, W87555, AA099257, BE550156, AI588983, AW204247, AI366748, AI805886, AI138445, AI313140, BE468140, AI458728, AI275451, AI279857, AI674281, AI431916, AW664610, AI928380, AI269434, AW303460, BE674620, AI803131, AI867122, BE221203, AI925957, AI435892, AI767332, AI218515, N99243, AW770741, AI279859, BE670348, AI379346, BE465388, AW663406, AI265771, H85592, BF110468, AA464584, AA909667, AI073818, AI243233, AA502751, AI804773, BG009489, AW779926, AI697614, AU145024, AI121250, AA889681, AC005746, U28049, AF244917, U15566, and AK001031.
HOFNY16	213	988363	1 - 1198	15 - 1212	BG164515, BG111223, BF112285, BG026284, BF684158, BG112559, AI741360, AI028092, BG027394, AW054930, AA843208, BF112117, BF106122, AI885734, AI086570, AA779766, AI149382, BE465615, AW131854, AI589032, AI761580, BF970936, AW338608, BG028559, BF594649, AW957967, BE535650, AI221082, AI538973, AI457118, AW305001, AA224194, N32622, BE857341, AI327282, AA574231, AW166459, AA502344, AI446132, AI333381, AA918408, BF700624, AA843391, AI188410, AA911794, AA694111, AI128450, AI017450, AI183618, AI695163, N71175, AI359210, AI362223, AI076169, AI373833, BE645009, AI969702, AI679434, AI679944, AI632818, AI751761, AA464068, AA677764, AA262544, AW611909, H98169, AA316805, AA224296, AI351595, H46974, BF939054, AI094637, N29775, BF000254, AA191432, BE439725, H99191, AW008944, BF317333, AA261907, AI654665, AA766635, AA629945, AA345802, N49576, BF941630, AA513768, N21971, AI469939, AA731203, AA627622, AI222668, AW627836, AI128771, AW206264, AI678337, AA463932, AA526189, AI535798, AA526159, BE615345, BE615934, N24474, AA781062, BF373261, AA766011, AI004436, AI249345, AA027991, AA366773, AA344096, R10708, AW131678, N28580, W19349, AU156209, AA333690, N47841, N57194, AW337311, AA027990, AA618114, AA861099, AA508759, AA780171, AA355540, AA508773, AA528039, AW972443, AW972641, AA535956, T25759, BE770747, AA918251, BE164977, BF997435, AI687527, AI749060, AW197976, H83283, AW104117, AW866581, AW866501, BE841187, BF374341, AW969030, BF001680, BF792390, H61031, AW866266, AW132056, AI590043, BF812960, AI433157, AI702073, BF812961, AI950892, AI635942, BF812938, AW827289, AI114703, AI280637, AI648454, BF970652, AI435253, AI633125, BE047852, AI445611, AL514717, AI569583, AW366372, AI698391, AW129659, AI635461, AI888208, AI862139, AW168650, AW026882, AI491775, BE964614, BF724198, AI431975, BF814453, AW251034, AW051258, AI536685, AI802542, AI818980, AL515191, BF816042, AV729953,

AI670009, BE965621, AW086113, AI670002, BG109131, AL513961, AI254731, AI564719, BF814412, AI815232, AI677796, BE965121, AI619502, AI445432, AL514579, AI687728, AL513597, AW166903, AW235482, AI435641, AI637584, AA292158, AI286256, BF925729, AW081036, AV735235, AI648509, AL514047, AI690426, AL514357, AL045500, AI687362, AI267162, AI926790, AI440239, AI590830, AI890833, AI812107, AL039086, AW148408, AI612913, AL513577, AI620003, AI799183, AI559296, AV703585, AI582391, AI687127, BF921291, AW079075, AL134830, AI580984, BF856017, AL514701, BG180046, BE963244, AI636588, BF868489, AW104724, AL110239, AF151872, AK023498, I89947, AK026506, AL110225, AF113019, AL110280, I48978, AF116631, AL162083, I09499, A08916, A08913, AB047904, AL133557, S78214, AK027096, AL137557, AL110196, X82434, AB049880, AL117463, AL359596, AL137480, AK025092, A08910, AF285167, AF314091, A65341, E05822, AK026480, AL122050, AF177401, AK026504, AF119875, AL117457, AL359941, AK027173, AL050149, AF116682, I89931, A65340, AL049452, AL137550, AL353940, AR087170, AF116688, Z82022, AK026927, AF113694, AK025084, AF130105, AL442082, AL133665, AK024594, AB051158, AK026744, AL389935, AK026532, AF119899, A77033, A77035, AL050208, AL050146, AL133619, AL389982, AL162004, S54890, AF119909, AL117460, AL359601, AL050116, AF125948, I48979, Y11254, AL133080, AK025339, AK026855, AL137459, AK000323, A23630, A08909, AL133640, AF118090, AB048954, AK027160, AF090903, AF130077, AK026542, Y16645, AB048953, AK026045, AF111851, AL133016, AF090901, AJ005690, AL133560, AF116691, AF113677, S36676, I33392, AK026959, Z13966, AL049382, AK024538, AF183393, AL110221, AF090900, AF230496, AJ000937, AB041801, AK026583, AK026784, AF116646, AL122100, AL133075, AF158248, S68736, AL133113, AF106862, AK026534, AB049892, A86558, AF225424, AF130099, X57961, AL050393, AL359618, X72889, AK026592, AL080124, AF078844, AF091084, AB052191, U37359, AF146568, AF090896, AL050138, AL133606, AF090934, AF113699, AL049314, AK000083, X63574, AL080163, AL122121, AR038854, U75932, AF090923, E02349, AL110296, AK026741, AK027204, AF116602, AF130087, AB052200, AF130082, S61953, AF130104, AL050277, AL137283, AF097996, X70685, AK000618, AK000212, AR079032, AL050108, AK026647, AL035458, AL133637, E03348, AF113689, AF130055, AF119878, AL049466, AK026613, AK027164, AF242189, U57352, AL157482, AK000647, AL122093, I68732, AL122110, AF119894, AF017437, AK026894, AK026528, AL050024, I33391, AF218014, AK025407, X84990, AX019230, AL133565, AX026823, A58524, A58523, AK026865, AK027081, AL049938, AF119865, AK000137, AF107847, AL137271, AF130100, AL353957, AK000074, AB050431, E07108, AF039138, AF039137, AK000391, AL353956, AF113013, Y11587, AL080074, AK024747, AL117583, AF176651, AK025414, E01963, AL162006, AK025491, AF119857, AK026452, AK025113, AK025772, AF138861, AX006092, AF111847, AF106657, AF079765, AX019229, AF104032, AL049464, AF100931, AF118094,					
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HSLCX45	214	988441	1 - 1594	15 - 1608	AF118070, X80340, U58996, AK024974, AF026124, AL157431, AL117443, AL117435, U35846, and U42766.
					AU138309, BE378723, AW954529, BG170125, BE407482, BF345314, BG110266, AU126439, BG252087, AI207589, BE38230, AW370396, AW514900, AW614778, BE873057, AW370434, BF968320, BG257066, AA166771, BG112038, AL525443, BF346757, BG118689, BE545196, AI808550, AU128363, AI076009, AW748425, AL135589, AA167097, BG167568, AA430610, AI825617, AW796311, AW182707, AW748427, AI026641, BG163741, H51991, AA975592, AW995303, AI264089, AA430525, AI372496, AA297731, AW573289, AI219300, AA322231, Z45337, AI080168, AI766072, BF727366, AV696797, R76072, AA384673, W24461, BF445015, AI806968, R54168, AA296920, BE171602, BF894766, BE171603, R82603, AA294943, AV692839, AA310705, AA632404, N42674, R14396, BF726113, BE892010, AI865128, AA824553, N32458, AA356894, AA166959, AI609522, AA166910, AI253143, BE162789, BF351162, AI924986, AA444136, AI075198, W05098, AA385099, AW374839, BF516243, AI248101, AI805883, AA582768, AA809507, AA731343, W44721, AA862207, R56252, AA826145, AA573521, AW407346, BG028788, N92283, BF445409, W38624, AI373279, AI150941, AI655627, AA889359, BF439835, AW613357, AI304379, AL133843, AI143202, AI767348, BE671632, AA055559, AA400410, AI826612, AI655656, AI433399, AI361012, AI214658, T32981, AW513581, AW513568, AW772436, AW130640, BE670317, T19107, AU150661, BE220152, Z41049, AL524537, AA700295, AA001677, AW768493, BF726112, AA730248, BF196078, AW511016, AI693099, AI693113, AW150675, AA948601, AA450020, AW081598, AA947191, BF515680, AI826592, AA031305, AI693090, AW748435, T93242, AA436536, AA526868, BF034090, R82604, AA826163, AA669789, BF591968, N48257, BE550159, BF589688, T93135, AW051111, BF754254, D79627, BF184824, AI887184, BF448111, BF893582, H30152, AW844424, BE972243, BG178888, BF934121, AA180040, N35415, AA555145, AK001437, AX010197, AB006572, AF091095, AX010199, AP000693, Z82196, and AI916220.
HLMJB09	215	988499	1 - 577	15 - 591	BE791453, BE266718, AI831454, AI478449, BF204533, BE728534, AW872373, AI366669, AI280407, AA306735, BG149615, N93873, AI268479, BE669813, AA465678, BE550202, AA912151, AA394238, AA972278, AW138759, AA310901, AW004693, AW008896, H96033, AA576640, AA292385, BF307199, BF511769, and AI074225.
HOVEF60	216	988526	1 - 1429	15 - 1443	AA863120, BF732255, BE326946, AW298244, AA017053, AA435512, AW295622, AW295626, AI951643, T53592, BE939132, AW294754, AA393547, T53591, AV699140, AA969193, R05527, AI085442, AA372985, R22075, AL160237, AC022137, AC011452, AC010636, AC002097, AF072711, AC006452, AL022326, AC008469, AC005520, U82670, AF176315, AL136969, AL365217, AC008770, AC005057, AC073316, AL133258, Z97054, Z69387, and AP000344.
HOGDR72	217	988536	1 - 530	15 - 544	BF967495, BF211711, AW327285, BF526862, BG025286, BF979085, BG027660, BE251902,

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HOCMF20	218	988556	1 - 1296	15 - 1310	<p>BE514634, BG256857, BE870314, BE537227, BG107758, AU157540, BE379227, BG180584, AA039903, AW957081, BF666246, AA041527, BF223913, AI088688, AI452952, BE463637, AI768938, AI354883, AI569996, AI168582, BE746240, AI189869, BF930629, AU138248, BG167829, AA214649, BF897138, AW613854, AI086670, R70656, AW262560, AA906264, BG176733, AA862839, BF992831, BE613477, BE614226, BF772857, BE741553, AA369318, AA398795, AA334622, AW749053, BF979310, BE541549, AI990089, R01145, AA367593, AI990659, AA379173, AL449915, AI886597, AI024032, AA435840, AA670197, AA847919, BF195634, AA248230, BE707671, N81095, BF196800, AI476295, AW818630, BE677063, AW630122, AW582595, BE072906, BF899151, AW818433, BF928637, AA211075, AW582587, BF877092, R05760, AW858854, BE964371, BF773525, BE937222, AA079305, BF799977, BF982105, BF988362, BE927423, Y10043, AF003626, AX012194, AX011713,</p>

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HAMHH26	219	988737	1 - 915	15 - 929	AU128934, AW295223, BE464400, AA991499, BE896488, AA350115, AA862497, AW803075, BF307480, BE771630, AI565361, BF305159, BG035692, AU143667, BE888160, BF308892, BG167064, BF316003, BG105910, AL533676, AA689522, AL527443, BF310865, BE561846, BE902727, BE250595, BE562560, AI970905, AB014077, AC004209, AP000513, U63336, and Z63167.
HHFOX44	220	988904	1 - 951	15 - 965	AL526701, AL522456, AL532453, AL527039, AL523903, AL526253, AL528026, AL527184, BE313151, BF981949, BE382548, AL528052, BE382760, AL530393, BE563051, BF316765, AL525360, BE295221, BE395130, BF343372, AL522455, AW161570, AI752220, AL528025, AL523902, AI752281, AL532452, BF316189, AA780343, BE314081, AI751714, BE710678, BE312148, AL525320, AA838048, BF526000, BE262585, AA308676, BE735562, BE295717, BF340685, BE714898, BF206587, BF207314, BF875508, AL527163, BE383255, AA532924, BF312104, AW160787, BF342085, BF206655, BF338128, AL524678, AA443563, T61701, AI750244, AW605824, BE792522, BG026032, AA327814, AI815410, AA042827, AI460348, AI365667, R19505, A09809, X16302, M35410, S37712, M69237, AF074854, S44612, AF120326, U21117, AC007563, M69239, S37722, and U21118.
HPWDE54	221	989029	1 - 4052	15 - 4066	AW857689, AW276231, BE551292, BF308481, BE299013, AA490201, BE670363, BF669630, AW005386, AV716271, W58532, N34876, H49263, AI989984, BF380965, BF351245, AW604667, T65325, AA316606, AI632927, AA284855, AW175932, AA456691, AA479509, AA284772, BF882124, BF754718, AI332652, AA479512, AI344533, H20606, BE502863, BF527371, AI025009, AI914188, F11769, AA449658, BF093603, AA992445, H14740, H69342, BF329858, H78105, AA065099, BE220691, AW003734, R91727, BG015459, AW468776, AI239843, BF333777, AA411443, AL135088, AA235153, AI651557, BE048365, F35147, BE311701, BF803133, AA479511, AW080475, AA689564, AI093007, BF329815, AI367837, Z41915, AW051387, W24995, AI613126, AW975318, AW383213, H82282, H24463, BF761251, BF834044, N55797, BF761000, N39880, AA284683, AI582820, AW444888, BE326218, AW002105, BE768127, AI350138, AI681729, H60265, BE940320, BE326820, AA284567, AA815230, AA476964, BF911584, BF909991, AW183890, AI241032, W46875, AA084319, AI633647, H94957, AI262918, AI022584, AW005596, N43950, H82389, AI683444, AJ252060, and M85156.
HNOAX46	222	989183	1 - 2741	15 - 2755	AU119537, AU134978, AI064858, AI064875, AW007726, AV703643, AU127757, AI694749, AI819136, AI887756, AI869305, BE885171, AA600798, AI887625, AI628095, BF061377, BE348369, AA723035, BF525409, AU148211, AI203615, AU145850, BE178344, AW169246, AI523583, AI922660, AI589554, BE720104, AV722120, AI805580, AU148112, BG250310,

AI377058, AI810912, AA398656, BF996331, AU148093, C05969, AW874271, N66451, AI073379, AI469977, BF571021, BE674095, BE297119, AI990024, AI371810, AA075584, AI623425, AI279574, AW971637, BE620518, AI499097, AI493871, AI291024, AI492893, AW960228, AA115284, AI720722, AI129299, AV697501, AA634410, AA706055, AA916688, AI222756, AI741475, AA136985, AU155745, AW190821, AW169279, AI628193, AA908259, AA845441, AI954086, AI680250, AA398754, AI093023, AA159897, BF244333, BF111354, AV701004, AL120202, AI298221, AA894561, AA210731, AI094211, BF476045, BE047218, AI363414, BF940251, AA664129, BE543935, AI805397, BF340684, BE790182, BF806198, AA436470, BE620915, AA713506, AA507594, AA625928, AI275221, AV660625, AA436520, BF809549, BF594770, AA292853, AW513038, W17099, AI281346, AI246750, BF822594, AW337467, AI457557, AI273621, AI358407, AV660420, AI089874, AI985765, AA565456, AA137111, AI051001, AA160265, AI301506, AI077775, AW271244, BE311714, AW044421, AV691111, AA508866, AI190740, AI672582, AA171627, AA907462, AW439122, BF382756, AW276059, BF376236, W33010, AA918085, AV659734, AI073377, BG015156, AA653335, BG113981, AI126887, AI079660, AU148196, BE146057, BF979837, AI475605, BE767928, AI751734, D57160, BF727149, BF448001, AW015164, AI922611, AI683103, BF525402, BE181216, AW511814, AW073312, BE940492, AW243771, AA977865, AI564424, AV699550, W35397, AI751906, BE971256, AA844327, AW630218, AA877447, AV650593, AV709628, BG012725, BE875929, AA171771, C00682, BF837333, AA730730, AW057767, AV659922, AI940054, H19824, AI630539, AI041582, BE328606, H87492, AW239505, AW021613, BE042700, AI935833, AI272094, AA621794, AW517994, BE767925, AI628171, AI572928, AI224383, AI269397, AI700135, AA029668, AI690407, AW768363, AA418591, BE965181, AW020196, BF804869, AA165005, H45176, AA327980, AI368771, AI422039, AI811735, H11196, AA502116, AA631471, AA171737, W45662, N90940, BE843804, AI950655, BF475871, H11102, AI383266, AA693578, AA853548, AI672986, AI581920, AI052283, AI805968, BF806807, AA639457, AI096876, BF125741, BG012720, H40424, AI168134, T48727, AI630920, AA614282, AW088935, BE768420, AA771963, AV684034, AW264774, BF337920, D82656, X79067, X52590, AK024202, M58566, X99404, AF061981, AC020910, AF123320, A75260, AF061982, M58564, I48979, I89947, AB048953, S78214, AF116644, AF116639, AF116691, A08916, AL049938, AF113013, AL049452, AL133640, AF113691, AF130082, AF113689, AF116631, AF271981, AF116688, AF116602, AF130104, I48978, AF130105, AF090934, AF130059, AF090903, Y11587, AF078844, AL050116, AF118064, AL157431, AK026865, AL110221, AL080060, AF090900, AL110196, AB041801, AF090943, AF119875, AX046603, AL389978, AL133016, AF104032, AF113690, AL050149, AL117460, AL162083, AF118070, AL050393, AX019230, AL122050, AF119878, AF116646, AK025339, AF090901, AL390167, AL359596, L31396, AL117457, AF113694, AF130092, AK024538, AL050146, AL137527, AF125949, AF138861, AR059958, AL442082, AB048964,				
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HCQCB28	223	989280			

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HOOJB32	224	989321	1 - 2335	15 - 2349		AL515532, AA829751, BE748918, AW007550, AL515533, AU119923, AL518484, BF697251, AW978734, AA812215, AI333647, AA776760, AA479310, AA976233, AA765519, AA602624, AW978969, BF214666, AW893942, AW993668, BF726646, BF036225, AI619447, AW272900, AA143053, BF589461, AI832440, AA825905, AW271599, AW439208, BF981088, AA868695, AA632054, BE895236, AW607674, AA143252, W60553, N27545, AA255434, AW272364, AI886366, AA027768, AA766708, AI079161, AI963170, AI079664, BF132493, AI274767, AA938443, Z25256, AI803757, AA757112, N40361, AV699373, AW607572, T50699, AW607642, F00462, BE165952, BF130297, AA876224, BE560621, BE748396, AA294831, BF900791, AI698984, AA255596, AW572264, AA805436, AA357727, T77071, BE896446, BF921133, AW964250, AA479413, BE542265, BF241063, BF576917, R80504, AI886367, AB007619, AF006265, AF076524, AL133353, L29555, AF059321, and AI168650.
HMWJJ35	225	989323	1 - 595	15 - 609		BF130431, AU148003, BF541521, BF668426, BE960616, AW955644, BF242464, BF242953, BF700182, AW592565, AL536954, BE737954, N39380, BF698754, BF214449, BF667459, BE565781, BF028162, AA640397, BE748478, BF238497, BF664849, W00920, BF665032, BF570721, AW976277, BF027869, BF664855, AA379071, AA329515, D80838, AL536953, BF695984, AA936496, AL109925, AK022419, AF254117, AF264787, AL137060, Y15228, Y15381, and Z57881.
HHFIA95	226	989396	1 - 3136	15 - 3150		AU118053, AI761722, AU133368, BE220681, BE904300, AA903124, BE218571, BE875326, BF110216, BG254952, BE393532, AL134516, BG105299, BG177247, BE885702, BE154897, BF037984, AI831473, BF574765, BF576023, BG260292, BE439745, AA604081, AA603455, AW629057, AI817117, AI694366, W80392, AI935246, AU144710, AA887227, BE154865, BG104770, AI076013, AA211611, AW168295, BF672060, BE154866, BF036585, BE154898, BF355599, BF671956, BF031143, AW769409, AW263745, AW977292, AA211683, BE075303, AU154716, BF215526, BF800037, AW086067, BE871344, AI281897, AI827407, AI244255, AI660036, BE789605, AI559254, AA044091, BF983298, AI122753, AA917034, AI637588, AI808102, R60765, W78970, N22921, AA393852, AI040177, BF229422, W56449, Z33451, AW771892, AI190898, AA547998, AW242400, AI188686, AI242430, AA604102, AA044281, AA765282, AV722457, AI338330, AA159042, BE880891, BF574179, AI338329, BF103937, BF219369, H18545, AI973242, BF105139, AA393851, BE891180, AA995784, R60253, AA569460, AA936280, F06764, AA993733, AA031985, AA541308, R67234, BF229418, BF802756, Z39821, AA173320, AW136432, N63356, AW316605, H51502, AA173319, AU124276, H02648, BF672600, Z26973, R81685, AI244925, AI016876, H18437, BF686307, AW265135, T54070, AI541355, AA565781, AW023057, R74303, AA856745,

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HSPSH36	227	989607	1 - 3341	15 - 3355	AI084794, AI079577, BE881652, BF339888, AU129623, AI860227, BFS27871, BE902813, AW247256, AW149506, AI340349, AW165995, BE258548, BG120667, BE562875, BE671167, N49941, BG122408, AI937382, BE220476, AA114972, BE467738, BE872452, AI798846, AW043850, BG104282, AI660526, AW504750, AA053861, AA432275, AA034091, BF798185, AI310064, AI677900, AI587077, AA543064, BE045523, AW898148, AI693972, AI356444, AA845685, AI084913, AI140117, AW593208, BF111021, AI273445, AA431268, AA934875, AW248351, BF432911, BE670425, BE828110, AI221382, AI356446, AI160550, BE217783, BG112435, AI689824, BF110424, AI914318, AA953658, W73665, BE673799, AI359956, AI360429, AI804623, AW965712, AW205262, AI342370, AA620610, AA918736, AI279173, BG149447, AA041542, AI304417, AA515511, BF061408, AI565733, AI859179, BE674577, AW071018, BF061911, AI351605, AA001196, AA923717, AA706669, AI950177, AI566935, AI311478, W73617, AA007600, BF840585, BF061852, AA503205, AW014660, BF112260, N52723, AW303274, AA352018, AA961114, BF195300, AI480209, AI278673, AI916311, H38785, AA047595, AA136472, AI052140, AI298446, AA057216, AW043575, AI128768, BF446866, W68642, AI033091, AW665976, AA889932, H95052, AA747719, T66290, AI298975, BF773249, AI375774, AI703297, AI500368, H20393, BE327032, N99560, AI090578, AI023749, AA086083, AI275622, AA757794, AI452648, AI583232, AI568624, AW470278, W68641, BF978456, AI364086, H16275, H38686, BE831779, AI459176, H83993, AW149552, AW949838, AI422271, R05556, H12369, BE676655, BF197252, AI609045, BF055295, R19188, R87458, R05663, AI268656, T66343, H21010, N50155, R71281, H43161, R61162, R85142, AI918177, R73430, R71230, AA372029, AI268549, AI702648, H75726, R99486, BG165410, H12317, AA814517, BE645111, AI348485, R99485, AI500402, AA975326, AA976181, R31047, AI348329, AI083736, AI369621, AI568988, Z41094, H66760, AI479912, AA086084, AI970578, H22528, W35148, AA971720, F12147, AA760693, H19816, H20389, Z43042, AA016275, AA782921, R05664, BE044409, F08012, AW973038, AA927449, H94692, BF766588, AA019859, AW151197, R56553, R05452, BE762898, H20197, AW006795, AI457786, AW002114, AW247925, AI937423, AA725110, AW505065,



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HAAA25	228	989952	1 - 1179	15 - 1193	

					AA877139, AA807892, AA514409, BE674773, AI250782, BE546729, AI214214, BF541519, BE302087, AA625531, AA593396, AI224033, AI016409, AI538453, AI281360, AI274110, AI249030, AI539329, N22772, AA722760, AI093842, AA550843, AI140319, AW674698, AI828736, AA972406, AI688907, AI337957, AI339781, AI278350, W87861, AA975567, AA857219, AW167933, W87741, AI538452, AW862480, AI474024, AI278811, AA464600, BF913633, AA527483, AA477850, N31654, AV653447, AW610369, AA857170, H58025, AW610357, AA235530, AI051600, AW384171, H24033, AV653129, AW384172, R45453, AW023520, AW384760, AA737307, AI989439, BE697073, AA923634, AW129709, T29737, AA477744, AA568370, AA641366, AA344094, AA298522, BE887376, R11264, BE891714, BG256267, R43413, BG259256, AI286350, F02958, BF806630, AA908416, AA703369, AW021464, R48004, AA304930, AV711648, R11207, BE814225, H57934, AW751711, AW747912, AW998901, BF795814, R43857, BE140421, AW949294, D19854, BF911096, BE928366, BE928405, AA410662, AI003385, BE928395, BE928396, AR009803, X00364, K00535, D10493, M38057, L00058, X54629, K01906, X00198, K02276, V00568, M88116, M88115, M22728, X00247, X97040, X13232, Y00396, Z68501, K01904, E01841, L00039, X01023, X00197, AF160483, M15078, AF160487, X95367, AF160489, AF160485, AF160491, M25762, U37688, AX018968, AX000474, AX000476, AX018972, A76272, M19724, X66258, U62109, X53248, AF076523, M13930, I24429, and I24433.
HTMJ16	229	990060	1 - 784	15 - 798	BF309104, BE559524, BE281458, BE385728, BE786863, AV756337, AA779378, AA806308, BF027226, AI955259, BG115810, BE257947, AI479643, AI201081, AA449114, AI523836, AW105647, AI371725, BF971945, BF037117, AI332998, BE791557, BE796212, AI832556, AI360813, AA812681, AI338226, AV733716, AA133351, BE795339, AI160821, AA417906, AA719870, BE744787, AI911189, AA652508, AA074869, AA677398, AA196804, BF685157, AA713507, AI028708, AA583945, AI949595, BE730232, AI804084, AV701912, AI272799, AI076158, BF684668, BE512992, BF037939, AA758900, BF686755, AI084956, BF667373, AI738876, AA593880, AA478598, AI081646, AA513306, BE793024, AA419554, AI192864, AI189240, W42538, AI401016, BF032897, BF207166, BF694324, AI242445, BF975403, AI094068, BF733159, BE878000, AA620875, AI188600, AA657626, AI274502, BF680048, AI187079, AA962082, BG176811, BF308448, AA463687, AA196803, AV744973, AI284416, AI224529, AA468047, F19538, AV709297, AA308585, BF244980, AI804825, AI871846, AA234166, AA234913, AA987467, AI127473, AI147167, AA187442, AA721050, AA233918, AI476030, AA234914, AA482379, BE698022, BE717214, AW795107, BE163110, AA463761, AA471119, AW873836, AA468083, AA872664, AA091369, AW844269, BE698050, AW844282, AI253673, AI220722, AA312835, AA969703, AA906776, AA229993, AA469001, AA468096, W31092, AA357299, AA318396, AI003540, AW964407, AI687745, AA468927, AA720885, BF374556, AA628636, N44134, AA479333, AI186421, AA449548, BF955675, AA385197, AV742900, AW794203, BF797432, AA833536, BE833240, AA887208,

HWLAB90	230	990146	1 - 2999	15 - 3013	AA318716, AA187616, AI243176, AI371742, AA383017, BF819540, Z20217, AW602656, AW504060, AC006064, AF151075, D63880, AP002085, AP001631, AP001748, and A74500. AV714144, BG032179, AW970180, AW968919, BG166257, AA488919, AW193898, AI809235, AA975791, W91952, AI761005, AI670010, AI339783, AI033067, BF034415, AW130078, BG002378, AI859374, BE898684, AA873447, R56753, W67396, AA514367, AA468526, AW613857, AI272684, AW303839, W67251, AA614766, R97330, AI304566, AA574117, H56576, H10098, AA488484, H10045, BF367097, C00414, AI300710, AI677837, AA918651, AW080712, AI015068, R97302, AI219130, AA977641, H81286, AA721681, AW630124, AI244872, R56905, H81342, W91879, AA009655, AI358594, AI991374, BF987177, H56577, AA886283, BF056410, R25858, BE091015, AF067817, AF118887, AF118886, AF067816, AF140280, and AF035442.
HOSED43	231	990184	1 - 796	15 - 810	BE293450, AI416985, BG259922, BE250091, BE409947, AW976132, AA127077, BG036566, AW006165, BG255815, BE267475, AW403861, AW408474, R47317, BF878882, AA074323, AW842660, BF825561, BF879325, AA806524, AI037897, BF932189, AU156313, BE788042, AW752809, AW52712, AI753037, AA602557, AU156024, AA127078, BE245636, AK001851, AK023509, AI137818, AL356108, AL023755, and AK022251.
HNODE50	232	990254	1 - 1305	15 - 1319	AL517211, AL518669, AL518668, AL522147, AL521219, AL525965, AL521218, AL517210, AL526016, AL529841, BF310468, BE260926, BF528453, BF792486, BF968614, BE727867, BF969532, BE741455, BF968373, BG254612, BF206651, BE780582, BF315676, BE314740, BE778351, BF337363, AI052120, AU127936, BF967743, BG256216, BE794943, BE543980, BF037565, BE906194, BE778878, BF980637, BE618222, BE385237, BE907648, AI564007, BE250963, BE786495, BG036398, BE251987, AI539865, BE786563, BE264208, BE538552, BF239260, BE878498, BG118091, AW674383, BF313845, AW948987, BF669238, BF528446, BF125038, AW054769, BE262248, BE545571, AI921598, AA492511, AA587938, AI857898, AA633515, BF027253, BE697365, BF925551, AW341500, BF954735, BF977183, AI745475, BF954757, BE260934, AA769361, AA599303, AW956994, AI286245, AI274299, AW666003, AW958317, BE252135, AI252682, BE877011, AI382161, AI076260, BE618764, AI127273, AW190900, AA514755, AU150315, AW939258, AI906279, W73289, AA503533, BE777951, BF093632, BE163339, AW236251, BE266670, AW872807, AA653758, AA612989, AI440380, AI469422, AI271745, BF945505, AI873681, BF675437, BE967460, AA572935, AI910865, W73234, AW241946, AA804790, AI356494, AW674551, BG023980, AI208194, BE745501, BF528373, AI690448, BF724593, AW103110, BF994022, BF993923, BF991645, BF993922, BE972246, BF994018, AA806069, AA834818, AA305461, N30688, BF312335, AI289450, AW794720, AW794703, AA305936, BF993929, AA311372, BF677595, AA305330, F37016, BF993927, AW878217, AA654459, BF991629, AI215967, AA772577, H45301, BF803635, AW086134, BF994329, BF994316, H45074, R48780, H18284, BF994322, R78818, AA040670, W31677, AA708219, AA148170, AW340499, AW183355, BF993333, AW082264, BF993925,

					BF991324, R4885, AA854391, BE743249, BF572574, BF993909, F22269, H11318, BE816818, AI919387, BE929439, AA293184, BF993998, AW601441, AA551484, AI215973, AA040571, BE074790, AI684072, F25626, AA225507, BF229895, H45378, C00180, BF994312, W32101, U46271, C03223, AI918341, AA356495, T99316, AA371678, AI342719, AA300944, BF344854, BF446856, AA364820, AI871791, BF993916, BE769414, BF331401, H45041, AI206745, BF856284, BF993912, BF332671, AW268821, BE185060, BF856295, AW082610, BE766240, AW939875, N41296, AA143767, R73522, AA330825, BF572595, AW407942, AA293185, AW198148, AW885160, BE155766, BF737069, AW381772, AA810809, BE173861, BF570667, BF755706, AW582513, BE828404, AW843210, AA458493, BE155779, AA904696, BF743412, AW748144, AI139866, AI633937, BF572945, AF222742, AR048276, AK001416, AF038958, S45663, AC010527, AF038959, AC009004, AX041002, AX040958, AX040974, AL133655, E13998, U30290, AL133053, AL133076, AL133084, AL133070, AL049423, AL133051, AL133049, AL122101, AL133607, AL133015, AL133608, AL136975, A90832, AR055519, AF002985, AR015970, AR034821, AX015526, AX030435, AF184110, AL122049, AC024067, AL110171, AB047966, AF126531, Z69719, AC004213, and AA494290.
HLWBV17	233	990255	1 - 684	15 - 698	AI539865, AI469422, BG036398, AW958317, AI076260, AA492511, AI382161, AI921598, AA769361, BG118091, AI564007, AI052120, BE385237, BE777951, AI286245, AI252682, AI274299, AW054769, AW341500, BE545571, AI127273, AI857898, AI745475, AI440380, AA514755, AI690448, AI356494, AI271745, BE538552, AA599303, AW666003, AA612989, AI873681, AW872807, AA572935, AA653758, AA503533, AA633515, AI910865, AA587938, W73234, AW241946, AL518668, AW674551, AW190900, N30688, AI208194, AA804790, AU150315, BE907648, BF125038, AW236251, AA834818, AW103110, AI289450, BG256216, BF967743, AI215967, AA806069, AA148170, AA772577, AL525965, AA708219, R48780, AW086134, H45074, H45301, W31677, AA311372, H18284, AA654459, AW183355, AL521218, BE618764, F22269, R48885, BE743249, AA854391, AA040571, AI919387, F37016, H11318, AW948987, AL517210, AI215973, BE074790, AI684072, AA293184, C00180, H45378, AI918341, BF856284, AI871791, BF337363, AI342719, BF331401, BE769414, BF446856, H45041, AI206745, F25626, C03223, AW082610, AI518669, AW198148, AA143767, R73522, AA330825, BF856295, AA293185, AA810809, BE155766, BF570667, AW381772, AW582513, BE155779, AA458493, AL517211, AA551484, BE878498, AA904696, AL521219, AL529841, AI139866, AI633937, AA862050, AL526016, AA552564, U46271, BG150895, AA329184, W73289, AI809413, BF239260, AA664948, BF968373, BF746013, BE876454, AL522147, BE260926, N27632, AA225507, BE727867, BE251987, AW878217, BF968614, BE185060, AW340499, AW082264, AC010527, AF222742, AF038959, AF038958, AR048276, AK001416, and S45663.
HOCQH66	234	990435	1 - 3554	15 - 3568	AW385298, AW834944, AI801294, AL048012, AW385250, AL048318, AI147487,

AW834975, BE207327, AW602060, AW834973, AW385294, AI814429, AA058619, AW385356, AA902817, AW385261, AW838397, AW068641, AI125527, AA977146, BF694540, AW385651, BE018904, AW069460, AA579845, AW385638, BE301092, AI754966, AW385640, AA662684, AW581139, AI633631, BF878408, AW385650, AW385627, AW385636, AW838695, AW848243, BG003095, AW578284, AW950688, AA025792, AW838697, AW067816, AI160086, BE018871, AA916433, AI312672, AW068642, AW385626, BE208320, AI123095, AI080534, AI129160, AW003402, AI190448, AW610207, AI650378, AI751474, BE939460, AA464278, AI079298, AW008904, AI753114, AI147847, AI921079, AW069596, AW838690, AW384905, AA464388, AW385632, AA042974, AA723144, AI754698, AW606828, R79130, AL047343, AW385625, AI825721, AI272862, AW818488, AL048190, BF375677, AI962411, AI357454, AI272866, BF357916, AI963455, AA954132, AA025791, AI751475, AW580247, AI754205, AA042927, AI978765, AI219182, BF732911, AI400590, AW004928, AI310057, AW848322, BF756603, AW068078, AI932634, AA030005, AW393481, AI751868, AA100085, AA383260, AI077475, BF750948, AW020383, AA358778, CI7742, AW385639, AW868273, AI139225, AI888266, AI138205, BE009637, H39918, BE350757, AI354649, AI421369, T27965, AW848470, AW473611, R35448, AL048011, AI341295, AW069475, AW471441, AW838686, AW751577, AA862923, AA716634, BE706049, AA367536, BE815887, H56289, H14894, AI365497, AI625217, R62651, BF881318, BF328333, AI341896, AA040255, BE716895, AI249066, AW069275, AW581369, BE815831, BE939589, AA852361, AW067878, AI191183, AI521666, AW182658, AA852545, AA853291, AA853205, AA852351, AI752085, R66734, BF085842, AA852637, AA852546, H56087, H47153, BE927989, AW068244, BF878970, AA334412, AA360911, BE815809, H62466, BE927982, R62603, AA948020, AA359993, AA853143, AA853845, H68869, AA853206, BF085865, BE172829, BF743880, AW068348, BE673154, AA295424, BF737866, AI445727, N87092, AW518915, AA295637, AA055352, Z18352, BF348861, H77700, AI910338, AA373385, BF852034, AI924679, BF085849, AW841507, BF870076, AA374488, AA330553, BE815849, U53096, AI933753, BF739081, BF743869, H47073, AA295592, AI983623, BE160978, BE842886, AI954497, AI927742, AL047976, AI910344, AW078820, BE677295, R79131, AA593508, BE160877, W21528, BE160966, AL048189, AI445530, AW834949, BF085889, N87776, AW151103, AW204360, R36363, BE149209, AI888646, AW029260, AW172935, F05794, W770450, AI130740, AW839836, BF827830, AA345318, AA935401, X52022, AF064749, Z18279, M20778, AI6768, AF097996, I48978, AF260436, AB034701, I48979, AL133640, E07108, AF116631, AF130066, AF031147, AK026855, AL137459, AF113019, I89947, AF090900, AF113690, AL110280, AF314091, AL049283, AB052191, U42766, AL050116, AF113694, AL049314, AF116682, Y16645, A08910, A08909, A08916, AF192557, AF106657, AF119896, AL359618, AF130104, AL122110, AF116602, AK025967, AL122050, AF087943, AF130105, AI2297, X06146,
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HOGDC67	235	990546	1 - 1875	15 - 1889	AL522719, AL530045, AL526479, AL515639, AL526439, AL515638, AL529665, AL521252, AL527656, BE797221, BE795409, BE798654, BE796334, BG252121, BE277057, A1608756, BE300022, BE513242, AU142632, AU117922, BF527825, BE561443, AU142525, AU122446, BE263145, AW301066, BE260541, BE798136, BE560713, BF527824, BE267445, AL522718, AL527657, AU124297, BF308205, BE877379, BF308460, AU132733, BE255304, BE265023,

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HCDBO02	236	990609	1 - 4074	15 - 4088	<p>AU118049, BF027266, BE897159, BF975497, AI690844, BE619812, AU116976, AI683350, AU123898, AI638817, AI299947, AW851296, BE619491, AW080261, AW003342, BG261217, BE550518, BF435624, BE540593, AW604148, AW604144, AU133706, AA923370, AW604156, AW604159, AI963937, BE903781, AW994444, AI355003, BG251375, BF795838, BE142887, BE898687, BG031003, AW503445, AW769245, BE391639, BG250064, AW593387, BE387364, BE735143, AW390271, BE538744, BE885670, BE885477, BG179338, BE548753, AW117969, AW513655, AI827494, BE281406, BG257886, AW589828, BE537306, AW264359, AU149292, AW604151, BF342540, BF591073, BE901079, AI570870, AA812088, BE166616, AU148669, AI372056, AI339216, AW367000, AI188999, BE148064, AA948067,</p>

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HODGN92	237	990611	1 - 492	15 - 506	AI114709, and BF515175.
HPDRP30	238	990751	1 - 2150	15 - 2164	BE736233, BE393462, BF979620, BG180451, BG031119, BE895899, AW015154, AI367256, BG250616, AW246035, BF589766, AA723883, AI339548, AI148428, AW518892, AI874244, AI339560, AW003788, AI653700, AA777268, AI261244, BE906120, AA847296, AW007179, BE293221, AW173770, AI346957, AI475948, AI143349, T65504, AI814098, R52652, AI339729, H39618, BE545311, F13535, BF980260, AV652617, and AL122073.
HBXFN09	239	990769	1 - 234	15 - 248	AA034059, BG169883, and AW998693.
HDTBO75	240	990913	1 - 455	15 - 469	AV752559, BE041424, AI374803, AV662297, W92499, AA431153, AW977181, BF439568, AA678183, AW834968, AW834907, AW837310, AA885002, BG028110, AA732329, AA732727, BF242398, AA432173, AW176741, AW580372, N55761, BF982207, AW241399, BF224093, AW970314, BF507800, AW970227, AA628895, AA766833, AA534395, N32238, AA347608, AW189247, R49979, N31980, AI650721, AI685214, AW511372, BG257682, BE549817, BG252929, BG167830, BG029667, BG113493, BF795712, AL039390, BF796402, BG261260, BG113712, BG163646, AL046681, BG178532, BG180295, BF968504, BG167093, BG114865, BF345716, BG111831, BF971261, BF965904, BG179586, BG111590, BG036465, BF968622, BG251851, BG165260, BG176936, BG104735, BG108452, BG035330, BF794212,



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HELGN26	241	991014	1 - 1609	15 - 1623	<p>             BF970582, BF971269, BG035858, BG170653, AA527442, BF032717, BG255093, BF684481, BE304332, BF312957, BE740090, AI651618, AI700966, BE616023, BF439777, BE218172, BG259712, BF223565, AW328638, AW081016, BE312971, BE218745, BE880967, AW965885, AV688930, BF110536, BF223349, BE616836, AI659341, AI492019, BF037137, BG011544, AI801971, AA653440, AI763063, AI362810, AI830364, AA602677, AI799940, AI590301, AI155644, AI132754, AI693639, AI538876, AA935812, AI913180, BE262105, BE220203, AW872403, BF431624, AI478310, BE502628, AI963163, AI049932, AI867018, AI445763, AW328637, AW237634, AI686646, AI093564, BF309857, AI355982, AV692290, AW004960, AW628274, BE676445, AW168151, AI720994, BE501936, BE677346, AI624773, AI038791, AI673720, AA777083, AI241965, AI083640, AW513233, R50466, BF962310, AI990564, AI121215, H30620, AA101514, W67379, AA778130, AW139256, AW514997, BE897897, AI540831, AI824615, R39429, AI291349, AW193446, AA114190, AI241095, AW193788, AW589519, AI132803, AI687589, AA358948, H28151, W31255, AA912622, AW591011, AI538118, AW075509, AW614272, BE349060, AA456143, AA780923, H46616, BF529857, W67264, AW235829, AI686256, AA308514, AI538723, AA706294, N91821, R38344, AI811489, BE833082, AW663952, AI862679, BF856265, AI478217, AW338623, T24735, BF981529, BE242914, BF970481, BE272808, AW953574, AV709660, AV709314, AV727029, AW951768, AV728518, AV696931, AV706417, AV656256, AV703169, AW954237, AV692691, AV708893, AV709390, AV728642, AV686064, AV660728, AV691080, AV661704, AV655280, AV659322, AV708381, AV727935, AV699089, AV706721, AV687035, AV655096, AV707753, AV708025, AV704269, AV726103, AV705280, AV698545, AV729220, AV726816, AV695545, AV701707, AV656283, AV701914, AV705159, AW945168, AV658863, AW955012, AV727787, AV654908, AV652001, AV651955, AV696866, AV725920, AV704234, AV702516, AV709407,           </p>

						AV728733, AV725826, AV725134, AV726156, AW954170, AV702427, AV708438, AW952007, AV683272, AV708834, AV659536, AV705384, AV728670, AW960201, AW960720, AW956894, AV709604, AV704955, AV698429, AV692972, AV685688, AV689800, AV693005, AV703168, AV701560, AV705693, AV706342, AV683443, AV701580, AW955748, AV706677, AV651519, AV702854, AV727003, AV729131, AV727526, AV692345, AV704553, AV706219, AV707541, AV701067, AV652156, AV659389, AW959980, AV659294, AV725745, AV727238, AV728471, AW956199, AW951707, AW952409, AV708091, AV693149, AV708717, AV649758, AV701759, AV707806, AV728436, AW960326, AV727819, AW953953, AW958647, AB046013, AL133215, AF123659, AF123657, AF123658, AF123655, AF123656, S68736, AX047063, AR050070, AF217994, Y08991, I89947, AA505637, and A1887473.
HODCU15	242	991048	15-3173	15 - 3187		BE782829, BE166336, BE893914, BF963846, AI637581, AI635627, BF956699, AW615337, BE892490, AW081066, AA398002, BF246643, BF959925, BF943255, BF352768, AV714386, AA399078, and AC046129.
HOGDI51	243	991268	1 - 962	15 - 976		BE745148, BE314775, BF313468, AW972065, AW160403, AA190647, AI468027, AA732363, AI568476, AI815528, AW015158, BE315222, AW958765, AA725374, BF446080, AA668784, BF313148, AA058590, BE741366, BE261839, AA021327, H92735, AA627547, H96373, H85956, BE843878, BF058863, AA973647, AA018467, AI240617, AA383496, AW439263, AI925892, AW162022, BE694410, AI739208, BE694382, AI336026, AL044942, and AF007872.
HLWAF02	244	991516	1 - 569	15 - 583		AA421538, AL525449, AU153711, AW964455, AW964457, AU148695, AU149818, AU147714, W72446, AI004165, AU159170, AU151493, W31068, AW874565, AA295338, AW269624, AA577265, BF764205, AW732171, AV702593, AI863050, AW003851, AI190446, BF843436, AA417216, AA483528, W74385, AW748748, AA318970, BE795181, AA872030, W76345, H26877, AW384040, AW517019, AW884747, AI469697, AI370275, BF892944, AI017646, AV690726, AL036104, H99624, AV689538, AV698770, AV691815, AI421770, BF591512, R94006, BE782006, AV689959, BE169392, AV689985, AV689953, AF004539, Z41369, F09802, AK023231, AK001371, AK026645, AB040885, and AK023160.
HRKPA16	245	991654	1 - 625	15 - 639		BG259737, AW194396, AA143418, AA404619, AI608754, AU154417, AI374988, N63618, AU149063, AU152646, AW966669, AU152215, AI038547, AA443610, AI690852, AA427421, AW339887, W60354, W59988, AW118447, AA349493, AI445343, AA461548, AW993204, AL121201, AA946641, H59011, AI014721, R98999, AW103224, AU157188, AI357842, AA927255, AA843235, BE467545, T64658, AA887129, AA354545, AI811399, AW072161, H21841, AA805567, H88125, H49591, AI279415, BF912456, AI621314, AW593607, AU148527, AU157952, AA665881, AW468541, BF947706, BF084343, T24715, AW406139, H88124, BE174405, AA640305, AW021674, BF914416, AI754257, AA493464, AI572680, AA610644, AW051097, BF747303, BE328286, AA177130, AV651424, AA493245,

AA633804, BF947959, AA100107, AA676462, BF084979, AA846944, BF679568, AA579417, AW875184, BG059139, BF932382, AA730530, AW962268, AV683406, AI308529, H37968, AA425283, AW847028, AA338474, AA834891, AW975434, AW501278, AI567676, AW793601, T57562, BF541501, BE974200, AA493808, AA657808, AI344906, AI318548, BF736912, AI570067, AA179364, BE244722, BE063646, AA663579, AI376687, AA492496, BG152612, AW963625, BE158554, AA584360, AI702049, AV7117475, AA847341, F04635, AA604601, AA482682, AA578711, AV753446, AW238242, AI831312, BG059924, AA935827, AV652066, AI445699, AI312267, AI242236, AI174703, AW963552, N49298, AW576221, AA772493, AW963295, BF823660, AI354377, AA639040, BE139230, AA129000, AI251460, AV740548, AA524604, AA610784, AI459794, AA313025, AW192002, AA320106, R92703, AI744199, AW069110, AA587835, AA502130, R92804, AI798573, AA493546, AI538404, AV712092, AA669225, AV763460, AI499538, AI631299, AA632355, AU146789, BG180320, AI547110, AW275585, AL121039, F01616, C15966, AW339694, D38524, Z96810, L47222, AC004019, AC007666, AC000052, AL132659, AC006166, Z96182, AC005730, AB023051, AC004650, AC010463, AL035460, AP000512, L47229, AC003090, U66062, AC003999, AJ271735, AB020873, AC002351, AC009516, AC006511, AC006315, AC005393, AP001712, AC002996, AC004975, AC007746, AC005399, AC005005, AC004213, AJ251973, AC005325, AC016683, AL138756, U91326, L47227, Z73979, AC004031, AC003014, AB035195, AC005666, AL049646, AF205588, D34619, AF207550, AC011296, AP000691, AC005000, AL356299, AC008720, AC005755, AL022723, U50871, Z97183, Z69721, AC011482, AL121967, L47225, AC007272, AC008521, AL139286, AC000388, AL157760, AC011444, AK000385, AC004953, Z69366, AL031427, AP000692, AL163301, AL138836, AC018751, AC004825, AL109798, AC008812, AL353807, AL079341, AC005911, AL122015, AC004686, L81692, AJ246003, AC007632, AC008738, AL139182, AL133163, U15422, AB046832, AL035690, AC002544, AC003665, AL132866, AC002357, AC002465, AC011811, AL136441, AP000280, AC004821, AL356747, AP001725, AC011480, AC010605, AP000694, L47224, AL096814, AL117374, Z81450, AC005071, AC004652, AP000107, AP000039, Z69375, AC005899, AC005202, AP001741, AL133342, AB032485, AL035587, Z95116, AL365505, AC005856, AC005052, AC005280, AL139343, AL022336, AC011462, AL050349, AC005837, AK024314, AL121886, AL138743, AC024082, AL031311, AF196779, AL031296, AL157789, AL022726, AL050328, AC009362, AP000553, AC004254, AL109758, AL138823, AC007510, AB039887, AC010524, AP000361, AC005228, AL008634, AC004893, AC005253, AL360157, AC006468, AC006942, AC006162, AL031666, AC005529, AL033529, Z97985, Z93023, AC006261, AL008716, AC005375, AC003098, AC004882, AC009228, AC005618, U78027, AL031657, AP001715, AL357992, AF045555, AC005519, AC018719, AL138832, AC008403, AL138733, AC006079, AL009181, AF111169, AC008739, AP001629, AC003046, AL035422, AC005410, AC018633, AC004386, AC020552, U07563, AL008734, AL096840,				
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HPDQX94	246	991761	1 - 776	15 - 790	<p>AL008629, AC007160, AL133458, L47226, AC020728, AF038458, AL391297, AB000931, AC009756, AC005031, AC006146, AL031286, AC004969, AL445263, AC011450, AC006222, AL157952, AL122001, AC011491, AC005808, AC004671, AC002364, AC002310, AC005081, Z93017, AC004223, AC002477, Z98044, AC004089, AL033522, AC008760, AL049764, AL136300, AL096800, AJ229041, AL121883, AP001760, AL031281, AC006013, AC011497, AL049712, U80017, AC023430, AC008264, AD000092, AC008806, AF111167, AC002060, AC007051, AC016995, AL135978, AC005020, AL021940, AL353748, AL359554, AL033524, and N53577.</p> <p>AU133068, BG109770, BE791999, BE260010, BE909913, AW195742, AV707197, BE312976, AV703890, AI088522, AW188226, BE393159, AA122237, AV751642, AA443448, W73858, AI741099, BE857070, AA724376, BE887952, AI421427, AA932230, BE073185, AI357586, BE512839, AI016288, AA115940, BF315243, N41317, AI423297, BF196664, AA843244, AI188255, AA770683, AU154475, AA913450, W73826, AI138932, N90753, AI913753, AI038148, AI127837, AI088260, AA781597, AI144232, AI363463, AA854712, AA825530, AA443313, BF239385, AI095110, W20418, W58687, W69502, AI028327, W73528, AI803249, H59104, AA933860, AA970638, BF680721, AV748822, AI128705, AA452952, W58686, AA582641, AI033287, AW263159, AV702086, H77347, AA286910, BG110576, AI301156, AV739424, AW993977, AA977957, AA825142, AW958007, AV744630, H49907, AI424203, H59143, H99044, AA971511, AA863091, AA296811, H77348, N92641, AI127018, H92900, AA84884, N30701, F30810, AA296822, AI219594, AA888566, AA962759, W73474, BF926138, BF681033, W69503, W93965, AI698882, AV750055, AA296691, W39151, AA883845, W93999, AA612823, F16300, AA565275, BF752259, BF087615, BF899291, AI884303, U77604, and I84662.</p> <p>AU124283, BF306200, AU139037, T77235, AU121920, R14830, BF934985, AW403909, AW630865, AA359207, AI929350, BE552049, AU118152, AU133500, AL037780, AL037781, AW163588, AU119533, AL533231, AI342324, AL525586, AL534903, AL532560, BE082428, AL533180, AU137962, AL533149, BF307401, AW394232, BG114142, AU133890, AL517501, AW160514, AL536801, AI929125, AU126141, AU139293, AW368666, AU133708, R99660, AL532677, BE612412, AL513758, BE299128, AU135050, BE742584, AU129935, AI309542, BE886331, AW163176, BF346813, BF220002, BE512694, BF361085, AU134988, AW842087, AW842088, AW842086, BE541071, BF528575, AA178907, BE617099, BG178536, BF340570, BE891863, BF091880, BG109816, BE410513, AU140111, BF346953, AI201385, AA781408, BE894297, AU127156, BF316594, AU134195, BF528479, AA398237, AA403177, AA347489, BE897187, AA634306, BE873260, BG257621, BE891934, BF037637, BE796323, AL047517, BE890489, AA668405, BE544513, BF311830, BF529750, BE548934, BE314356, BF527194, AI018415, BE544804, AA192090, BF345146, BE539195, BE896937, AL037971, H79173, AA191007, AA160986, BF343228, AL036607, T96350, AI191902, AW246288, BE149595,</p>
HEAAY09	247	992678	1 - 391	15 - 405	

						<p>BF967134, BE746173, T86587, BF724976, W52305, AA159846, BF757246, AA808915, BF966188, AW163313, AA635058, AW163830, AU137163, AI879210, AU134072, BE512816, AA410907, T07973, AL533419, AW162005, BF724415, AW364192, R84319, AL036626, T09356, AL036544, AA085075, BE279666, AW162094, AI816208, AA369795, AW160383, T75456, AA204760, BE707293, BF832811, H11161, BE708222, BF335706, BE697593, BF335701, AX015399, AR075662, D38585, U35048, AJ222700, AK027071, AL138960, X62940, AF201285, L25785, and X97299.</p>
HPDRH78	248	992780	1 - 1583	15 - 1597		<p>AL517707, AL526969, AL534602, AL517706, BE793392, BE793400, BE798802, BE274603, BE793463, BG179834, BE796319, BE730416, BE799085, BE622275, BE797197, BE895295, BF684516, BG180391, AA313808, BF128627, BE902688, BF974046, BF309165, BF035424, BE542126, BE378892, BE279546, BE389149, BE264217, BE746282, BF980789, BE792649, AA143543, BE390945, BF939857, AA247475, BE254943, BF087367, AW602074, AA143677, AA669128, AI619455, AI885489, AW674128, T66216, AV653122, AW771167, AW673887, AW952242, W17242, AA465232, AA662828, AW156961, AI423378, C14781, AA847816, AI082555, AA064998, AI699796, AI654002, AI400301, AA976430, AA847635, BF129286, AI357386, AI371760, AA838647, AA465587, AA046948, AW083621, BE149761, AI252222, AI572527, AA907174, BF858322, AW247996, AA065085, AA366802, AI927121, AA366778, AW006612, AA001409, AL534601, BE859074, F12200, BF973830, AW904428, N89759, AI648415, BF090228, AA373821, BE936261, AI752839, AA610398, AI889695, R22510, AA383297, R22509, AI445855, D81188, D81094, C14780, F01851, D81093, AW472987, BF843018, AL037280, AW818769, AI801700, BE503553, H85986, AI251103, AW273610, F09830, AA321564, Z42323, D20815, BF747217, AA027150, BF746814, R12421, H71469, AA988870, AA835430, AI264946, T66149, AW839241, H86346, AA579666, BE538136, AV660656, AX011690, AF282851, AK000474, AP001714, AP000037, AP000105, AP000275, and AL355729.</p>
HLMHG68	249	992900	1 - 1331	15 - 1345		<p>BF967276, BF967822, BE675848, AI693547, AA398062, AW044341, AW117949, AW468685, AI801370, AA890730, AA778640, AW001899, AA456064, AI434131, BF508778, BE833021, AU145029, AI033982, AI826270, BG026214, AA455567, AA652457, BF108431, AI458156, AA918511, AA515452, AA631567, AA687760, AA573416, BE045477, F22701, BE546175, AA292780, AA477424, AI699125, AW770290, AA310438, AW884291, AA640186, AA290862, BE774653, AI686681, AA479585, BE881951, AA394172, AI394051, BF361999, AA291044, AA150391, BF855032, AI816954, BF737256, AA291855, BF869437, AA291733, BG259202, AL044192, AA768725, AI366983, AI701948, BF915315, AI926593, AW102900, AI345746, AI537516, AW079768, AI632981, AI608802, AI597805, AI636788, AA830821, AI050666, BF816031, AI923279, BF817746, AI951222, BF921215, BF913569, BF914101, BE393551, BE315058, AW083804, BF913568, AW129269, AW265004, AI699154, AI702540, N74355, BF305318, BE613727, BE965355, BF913615, AW301406, AI718161, AI923272,</p>

					AA527880, AI674912, AV721917, AV732941, AW023469, BF814530, BF339333, AI300233, BF038804, AI285417, BE245461, BF925370, AI812057, AI801032, BE963876, AI362332, AI589993, AI824357, AI918554, BE962903, BF814429, AI677797, AW026633, AV736709, AW172723, AW151451, AI244380, BE731886, AI624475, AW190482, AI689463, AI520785, BE172499, AW168700, BF816041, AI446124, BF915316, BG110060, AI915295, AI354613, AI439097, AW404239, BF750885, BE566196, BE966340, AI636187, AI635528, AL523055, AA424741, AI749373, BE538466, BF904180, AV736456, AV736039, AA853213, AV741631, AI242411, BE294431, AI300123, BE964269, AA853539, BF764534, AI658566, AI872810, AI696626, AI680418, AI305157, AI609671, AI679916, AI950973, AI249946, BE091470, AI446110, AI365256, BE964497, AW085786, AI345677, AA713511, BF814449, AW999906, AI680504, AA713851, AI886055, AI472536, AI041019, AI312210, AI452857, BF308704, AI340533, AA852918, AI340634, AI309431, BF128459, AI364220, AI476147, AI224373, BE962570, AI287764, AI340511, AW073868, BF858085, AI334895, BE964767, AI307507, AI310927, BF815196, AI691149, AV682011, AI336488, AI336565, AI340613, AW020455, AI310930, BF133429, AI312271, AI445663, AI139349, AK021645, AC025735, AF030635, AF052157, AC006338, E03348, E03349, AC002540, AC010088, AK000568, AK026533, AK026182, AI8777, AF218005, Z84467, AL137536, AR068466, AL389978, AC002432, AF067420, AF094850, AF106934, M64936, AF217988, AB047901, AB044390, AF217999, AL031295, AF141976, AK000494, AF029404, AR030544, L78810, AF027180, AL353810, AC073539, AF038191, AK026571, AK000598, AL117626, AF217994, AF053645, AL158012, AF130100, AC020904, U75370, AC024038, AL030998, Y08769, AL157360, AF110417, AK000672, U51124, AC005284, Y17327, S71381, A69673, A69681, U08374, AK000266, AR059958, S79832, AL137268, AF022363, AC026430, AL137286, AF065135, A76337, AR070212, AK025414, D83989, AL117440, AC004213, AL163152, AL158832, AK027104, AL133645, Z72491, AB041611, U96683, AC006013, D38178, AC007360, AL160412, AC010072, AL121919, AC003977, AL161804, AL035086, AC004485, AF302689, AB044560, AF197929, AK000718, AK026867, X61399, AF030165, AB050534, X75295, S70057, AF116649, AL021391, AL121828, AC010128, U69730, AL050316, AP001434, AL157694, AC006221, AL357497, AL121932, AC005353, AL033523, AC005250, and AC006336.
HODFO57	250.	992973	1 - 2135	15 - 2149	AL521538, AU125521, BF793744, BG258951, BE796240, AU129772, BG256358, AW134800, BE253092, BE539282, BF822222, BE676509, AI884675, AI356274, AU159541, AI922366, BE676139, BF154835, AA522887, AI983195, AI652380, AA614362, AW193792, AI093421, AW474923, AA236204, BE939312, BE675234, AA131740, AL045292, BF478117, AU149161, AA781085, BE674720, AW514745, AI417244, AI093127, AW379958, AI276637, AA131671, BE252897, AW590126, AW379963, AW205128, AI289900, W28544, AA775698, BF589820, AW513803, BE257415, AA559118, AW571703, AI570252, AW630205, W56287, AW150930, BF746091, AI873877, AI813283, AI873584, BE939111, AW379959, AA256931, W20295,

					W01952, BF592912, BF940400, AI367701, BF813651, AW510386, AW615008, AA808752, BF350176, AI689423, AI813544, BF955736, AI638124, N23992, AW803181, AW118104, R61350, AW379950, AW664515, BE166559, H95563, R98051, R98291, AW379953, BF590870, Z44598, BF883900, AI032934, N31893, AA255440, AW135533, AI191311, AW080110, AW207573, AA765360, BF350175, BE815693, N74127, H75780, BF806805, BF900264, Z40471, BF376312, AA775773, AI784599, AI933593, AA193577, H75919, F27380, N36713, AA356015, AI191092, N90675, BE815761, H70361, T98923, T98966, C17503, BF892700, BF739337, BF847746, BF129814, AA236205, H70360, BF829897, BF903297, BF901728, BF876101, BE709109, BF890803, AW365688, BF377679, AB023221, AK024505, AK022684, and AL117517.
HOCpz44	251	993380	1 - 970	15 - 984	BF308448, AV733716, BF667373, BF971945, BE791557, BF207166, BF685157, BF680048, BE730232, BE744787, BE257947, BF684668, BF686755, BE795339, BF032897, BG115810, BF037117, BE796212, BE512992, BF694324, BF037939, BF244980, BE793024, BF975403, AV744973, AA196804, BF733159, AA074869, AV701912, AW964407, AA308585, AI201081, W31092, AI911189, AA187442, AI332998, AA449114, AA196803, AA677398, AA652508, AI832556, AI360813, AI479643, AI371725, AI949595, AI523836, AI338226, AA583945, AI1160821, AA812681, AI955259, AI272799, BE786863, AA463761, AA133351, AW105647, AI687745, AA471119, AA417906, AV756337, AI028708, AA779378, AA806308, AA719870, AI804084, AA628636, AA713507, AI076158, AA758900, AI242445, AI738876, AA513306, AI081646, AA593880, AA478598, AI192864, AI084956, AA312835, BE163110, AI189240, AI401016, AA419554, AA229993, AV709297, AI871846, AA620875, AA468096, W42538, AI094068, AA357299, AI188600, AI274502, AV742900, AI187079, BE385728, AI243176, AI284416, AA657626, AA962082, AA479333, AA463687, BF309104, AI224529, F19538, AA468083, AA468047, BE559524, AA234166, AA234913, AI804825, AA318716, AA987467, AA318396, AW795107, AA449548, AI127473, AA234914, BE717214, AA233918, AI147167, AA721050, AA469001, BE281458, AI476030, AA482379, AA385197, W42473, AW873836, AA091369, AW844269, AA383017, AW844282, AI253673, BE698022, AA969703, AW300509, BE698050, AI220722, BF819540, N44134, AI003540, BE833240, BF374556, AA468927, AA720885, AI186421, AA872664, AA366125, BE549139, BF027226, AW794203, AA906776, AW403920, AA833536, AA887208, AL079619, AA187616, BF104085, AI371742, BF675494, Z20217, AW602656, AC006064, AF151075, AP001631, AP001748, AP002085, and A74500.
HPAMU38	252	993403	1 - 2925	15 - 2939	AL524221, BF974727, BE905660, BE906439, BF972299, BF339849, BF971432, BE871633, BG258581, BG027617, BG027987, AL043542, BE262313, BE547005, AW964993, BF129017, BE894197, BE859070, BG106537, BF304618, AA812224, BE882690, BF109975, BF541992, AI075752, BE735522, BF950143, AW408171, BG058798, N32170, AA861404, BF343941, AI859140, AA630418, AI524267, AI888719, AL043543, AI571362, BF972284, BF111665,

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HNGGK47	253	993602	1 - 686	15 - 700	<p>AA587109, AW813774, AW959611, AA149541, AI184943, AA283852, AA915990, AI754552, BE146143, BE146078, AA192458, AI276859, BF058388, AW968813, N25247, AA179831, R50526, BE906097, BE748870, AA489709, BF058508, BG001227, AA600248, AA149622, R50552, AI831786, H60862, BE748864, AA159263, AA912651, AV704542, AI360851, AI094704, AA151772, AA088441, AA130533, AI732442, AA130457, AA115727, AA132985, AA156548, AA100473, AA156552, AA133314, AA146791, AA115406, AA085900, AA506505, H30250, AA130431, AV705967, R50721, AA156558, AA593788, AA134890, AA160532, AA115791, AA056456, AI732411, AI144451, AW975853, AA837803, AI732210, AI732209, AA527289, BE145948, N43184, AA216639, AA233457, AA055823, AI535936, AI242047, BE146358, BG255562, AW817478, AA418333, AI264351, AI274932, Z99365, AA132266, AA155720, BE675378, H69025, AA483160, AA484178, AI685396, AI479610, AA152342, AA890486, BE146091, R78417, AA219599, AA223178, AI052113, AA100721, AA703512, AA213692, AA627379, R98355, AW593679, AA102795, AA227040, AW341960, H38219, T53321, W28465, AI762542, AA052890, AA242847, AA252138, AA134470, AA099427, AA129454, AA135403, AA102232, AA135390, AA689437, AA173762, AW129244, AW007800, AI017153, AA227186, AA548735, AA308744, AA223472, AA772499, AW854595, AA962219, AI636602, AI700160, H51291, AA055663, AA984688, AA100673, AA143593, AA528777, AA838754, AA434477, BE748279, AI949977, BF673870, AI280212, BG013985, AW969910, N66779, W25656, AW025824, AA424412, AI743039, AA135407, AW966820, BE741129, AI285813, AA405703, AA832265, AA157818, AA219559, BF816863, AA424458, AA936323, AA196784, AW967555, N71300, AW962131, AI820789,</p>



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				15 - 662	AI207402, AW983839, AW983779, BE267153, AF074693, AL157598, AW813858, BE393346, BE142616, AW819892, AW819887, BE161913, BE179562, BF343443, BE062392, BE143181, BE069054, BG104743, AW820198, AL157534, AW847202, BF686579, AW811905.
HODGN51	254	993754	1 - 648	15 - 662	

AL118852, AU149172, AI128858, AI114529, AU122382, AW983740, AI920994, AW852539, AW811815, AV711736, AU121228, BF082163, AW893700, BE065237, BE155635, AW938300, AW811963, BE065599, BF839073, BE065597, BF980482, BF344952, BE728951, AL532687, AW847178, W03511, AA579202, AW862582, BE549207, AW895657, AW962193, AW811877, AW811885, AL119839, AA736433, AL079961, AV730967, AL044792, AW854552, AI086283, BF918604, BE047760, AW887035, AW937815, AA808968, BE780820, AV682071, BE408894, AW855467, BE781027, T07197, AA129985, BF876571, AW902213, AW834551, BE245825, AA018943, AW861625, AW811646, H82488, AW105462, AV722355, BF881870, AW834553, AC006399, AL034412, AC004029, AC005137, AL080239, AL022401, AC005068, AP001960, AC018468, AC004103, AL133370, AL449163, AP002027, AL139009, AL163278, AJ229041, AP001724, AC006222, AL049844, AC007282, AL163284, AL121867, AL356913, AF036876, AF003625, AL133417, AL137157, AC009241, Z95126, AC002067, Z99572, AC008912, AP001669, AC004478, AF274857, Z99289, AC004388, AL354653, X87344, AC005999, AP000127, AP000205, AC002367, AC005491, AL096827, AF241733, AC016831, AL445189, AC009949, AL132827, AC002071, AC024153, Z97198, AL049792, AC006484, AC020755, AL135926, AC010719, AL022578, AC026197, AC003091, AC004994, AL121757, AP001709, AC007313, AC004911, AC003081, AL049778, AL133247, AL109759, AL132668, AL117340, AL049176, AL391294, AC020637, AL135922, AC010235, AC005018, AC006249, U96409, AC004128, Z83848, AL360270, AL117347, AC011362, AL096829, AP002026, AC006054, AC008509, AL009176, AL049823, AL360174, AL157375, AP001331, Z95325, AC005588, Z83850, AL355530, AC010198, AL391689, AC005352, AC005823, AP002532, AL049838, AP001760, AL049565, AL035246, AL121986, AB014085, AC006313, AL049875, AL035423, AL117191, AL009028, AL034370, AC004187, AL445306, AL050308, AC008583, AC007731, AL136372, AL079303, AL133241, AC005500, AL021069, AC009404, AL163280, AF055066, AL022399, AL031074, AL354977, AL157837, AP000515, AC007514, AL137016, AC009514, AL121882, AC010685, AC006478, AC011890, AL122003, AL354685, AL135786, AL022100, Z83745, AL109934, AF110324, AB045358, AL356513, AC004852, Z98753, AL157413, AC007364, AL354750, AC003106, AC087085, AL031965, AC009505, AC012000, AC005873, AC023510, AC009508, AL356473, AC018513, AL390237, AC008770, AC025614, AL031054, AL135960, AJ131016, Z70050, AC007878, AC010436, AL022727, AL355836, AC026341, AC007444, AC009229, AP001708, AC005019, AL158157, AL034410, AC008833, AC006327, AL137015, AC005303, AL161804, AL157779, L78810, AC005539, AC007751, AC006287, AC004973, AL034406, AL121958, AL137061, AC009430, AF235098, AL049794, AC005024, AC024067, AC000110, AL445249, AC020603, AL121880, AC073165, AC004043, AL356799, AL133226, AL136297, AL161905, AF003530, AC000049, AC013447, Z82210, AC008177, AL035427, AC007528, AL022400, AC022274, AL118496, AP000493, Z98255, AL360157, AL359715, AC002523, AC002468, AL139093, AC002426, AC078854,					
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					AC004470, AL118505, AC034242, AC009313, AC008462, AC020717, AL163152, AL391666, and AC005739.
HODCT60	255	993806	1 - 673	15 - 687	BG150704.
HAQBV81	256	993918	1 - 813	15 - 827	T68150, AA664288, AA113062, AL045561, H63748, BE350958, BF821840, AA190633, BG120327, BF994701, AW582857, and AW582794.
HDTGF49	257	993931	1 - 1643	15 - 1657	BF516217, AV732160, R83419, BG255616, BE171964, F27801, BG253577, AW474317, BE162826, AV755592, and AK002081.
HOGBN62	258	994134	1 - 642	15 - 656	W68274, AI073484, BE543503, AL524870, AL528375, AL524871, AL529901, AL528409, AA528652, T58395, T58350, AI242994, AL048969, AA713712, BE154526, BE154518, BG111530, AA569631, AA484658, AW275432, AI269832, H90845, AW263396, AI523991, F13773, W03981, AA129133, BE154459, AA526426, AW855982, BE158799, AA988320, AI768952, AA348511, AA569586, AW885762, AA224238, AA489571, BF876739, BF877700, AA283455, BF877694, AA934825, AW974136, BF978936, BG058309, AA210951, AW833189, BF977345, BE154446, AA069473, AW238386, AI611736, BE154584, BE154524, AA368073, AA599710, AA368633, AI369977, AA708889, AL134280, AA557764, AA372884, BE179742, AW438765, BF992129, BE739174, AA664942, BF810146, F00818, AW817905, BF244176, AA714276, BG006133, AI819525, AA720531, AA908331, AI378950, AA601237, AA910680, AW387775, BE179910, AW387778, AW572140, BF978162, AI500563, AA411171, BF691653, AW769859, AI354388, BF833448, AA635135, AW510403, AW473996, BE961047, AW409710, AV739833, AI690379, AV695910, AW410354, BF212465, BE870750, BF571687, BF978010, BF691393, F01694, BE777501, BF977222, BF978508, BF691774, BF211406, BF238352, BF979045, BF690603, BE961172, BF692655, BF572980, BF184128, BF571004, BF184981, BF692099, BE777568, BF692045, AA581352, AW820694, BG110818, AA993041, AA584133, AA594072, AA599115, AA599143, T50205, F00112, T84169, BE888068, AA828062, BE147527, AA669985, AA297199, BF762987, AW087537, BF213033, W02403, AI870453, AI919048, H70469, AA719201, AI831171, AA381216, AA101744, AA744084, BF676352, AA512999, T87481, F29968, BE002881, AJ230815, BF803608, BE154517, AA745459, BF921846, AA744068, AA745533, R51854, AV694805, AW272389, AA745393, AA477103, AA639040, BF957365, BF915592, N58546, D29424, AI869406, AA985240, AW004922, BF831769, AL048090, AW192199, AW571499, T50255, BE886807, BE302658, AW439867, AA584814, BF917819, AI984742, BF879039, AA568127, H60396, AI635245, AL039669, AA525753, AA569474, AW387786, AC022392, AL359339, AK023436, AX048077, AF132952, AC005154, AC002449, AC011290, AL031985, AL008628, Z70289, AL161938, AC012099, AC006028, AC006578, AC005520, AF196969, AC007487, AL031575, AL109843, AL030996, AC004914, AC005697, AC010582, AL159985, AL035405, U95739, AL161670, AC004980, AC005831, AC000120, AC078899, AP001409, AF008243, AP001417, AP000160, AP000018, AC005899, AP001635, AL033543, AC009312,

					AC004031, U78027, U80460, AL035422, AL353804, AL133448, AC004084, AC006345, AL050318, AL121981, AL121753, AL359954, AL022333, AP000317, AP000119, AP000051, AP000166, AL355515, AL354872, AL008720, AL022401, AP001719, AL354680, AL162742, AL109743, AP000337, AL023694, AC020916, M89651, Z84486, AL031774, AC007560, AL035689, AL034380, AL121749, AL158198, AC006040, AC005701, AE000661, AC007421, AC008115, AL049851, AC005620, Z82178, AL031293, AL121969, AC008897, Z82214, AC005968, AC009247, AC083864, AL136131, AC005618, AL079352, AL365475, AC002365, AF064861, A58551, U00921, AL356414, Y14768, AL136228, AC004596, AP000505, AC002090, AF129756, AL445590, AP001055, AL441887, AP000252, AL008725, AP000030, AP000212, AP000134, AC021752, AC006509, AL118510, AL033521, AC007993, AL133229, AC009194, AC008733, AP001711, AL035652, AP000348, AC008599, AC010363, AC004593, AC024561, Z99716, AC002991, AL035682, AC006009, AC022428, AC007129, AC004991, AC003007, AC000025, AC004033, AC005913, AC005527, AL008627, AC008753, AL049712, AL031847, AL359846, AC007731, AC005500, AC005632, AL355497, AC005529, AL137475, Z98882, AC011523, AP000279, AC005156, AC004775, AC010605, AP000289, AP000038, AP000106, AP000042, AP000110, AL136166, AC003012, AL121829, AC006502, AL078594, AC020908, AL109758, AC007383, AL133246, AF243527, AC007344, AL163279, AL137230, AC000115, AC004693, Z82246, AC010129, AC004211, AP000496, AL031729, AL135786, AC018712, U85195, AC002369, AL050325, U75285, AL035046, AL049822, AL357560, AC006505, Z49237, AC011521, Z82248, AD000091, AC005523, U81031, AC000028, AP000228, AC004950, AC005841, AP000140, AC005228, AL096763, AC022143, AC002074, AC008162, AC010305, Z97632, AL133517, AC008623, Z97054, AC010627, AC004056, AC010491, AC078833, AL021398, AL109925, AC003682, AC004112, AL035070, AC010620, AC008747, AP000088, AC005531, AL135924, AC009225, AP000555, AC019172, AC005084, AF111169, AC023481, AL049776, AC009086, AC007450, AC006449, AP001694, AL136081, AL390039, AF208488, AF111167, AE000658, AL359433, AL035494, AL121833, and AL117381.
HSKGR42	259	994234	1 - 536	15 - 550	BF665644, BE617899, AW975289, AW370221, BF700281, AU154495, BF334587, AW673900, AA648105, AA186588, AV758959, AI858160, BF088091, BF694157, AA659697, BF131572, AA134338, AI914719, BG117553, N71529, AU155727, AA120820, AW363311, N22162, BE617450, BF155707, BE168417, BE879249, AU128878, AW996843, BG261212, AW576295, AW268074, AI343171, AI311237, AI335437, AI344929, AW274348, AI336661, BF239659, BF082539, BF438758, AI741448, BF108773, W73136, BE005344, BF829286, W73116, AI251367, AK000741, AK001701, AK001452, AK023438, and AF086334.
HOEBQ85	260	994356	1 - 1053	15 - 1067	BF980115, AI056683, AW071598, AA393981, BE350760, BF508825, AA053954, BE048405, AA397906, AI336420, AI022052, BE253405, AA007404, AI090549, AI147131, AI298335, N69649, AW627842, AA723269, AI671126, AL043975, W58502, AI051785, AI670024,

					AA639760, AL043976, BE410449, BE220726, BE728986, AW628468, AA707486, BE141443, AA034435, BE141442, AW386728, AL040334, BE304515, BE302700, BE304702, BE408918, BG165005, AA478114, AK024475, AL117435, and N71204.
HOPJG01	261	994536	1 - 1376	15 - 1390	BE793580, BF966696, AL527978, AU142696, BG112976, BF038095, BF339980, BF346274, BF525737, BF343070, BE796871, AI660492, BE795029, BE740676, BF338457, BF342629, AW157045, AU142854, BE779472, BE791809, BF348176, BF340334, BG108431, BF341150, BE963752, BF337746, BF528606, BE799928, BE251212, BE795188, AU142971, AU123853, AA608630, BE799766, BF984658, BE793148, BG178895, AU142368, AU142683, BF313309, BF435460, BG026841, BF680862, AW163707, AI929171, BE293477, BE799635, BE871928, BE207262, AW276503, BE382663, BG056162, BF205980, AI858505, BF311248, AW250342, BG035351, AU119034, AI573104, AU132674, AW247120, BG056369, BE207051, AI566557, AA126454, BE293760, BF340125, BF343144, AU143052, BF341561, AA194148, BF206123, BE206913, BF317056, BE907374, BE249879, AA582085, BE907893, BF310434, AI887640, AW615498, AW245039, BE260787, BE618820, AI880285, BE791120, AI859252, BF526752, AU123414, BE464593, AA778344, BF316388, BE253881, AW157606, BG059864, AI418820, BF434994, AI360942, BE788830, AI097502, BE798646, AA770622, BF337854, AW087978, AI921292, BE348883, BE546108, AW732146, AI653881, BG059738, AI023190, BE792435, AA194087, AA595219, AI025155, AU159706, AI085502, AA911630, AA744512, BE973865, AA534937, AA743675, BE262210, AI421284, AA581421, BE545834, AA604154, AA609450, AU145465, BE206914, AW163012, AU160213, AA552532, AU129356, AI929749, AA541593, AI363424, AA434310, AA069319, AI359872, AA968682, AA526861, AU160054, BE312609, AA621196, AW328427, AW384946, AA565664, AI460077, AI929377, AV709913, AA100233, AW163104, AI083875, AI344608, AA682988, AW072500, AI241695, AI366155, AA931506, BF344959, AI340434, AI927283, BF568570, AW248160, BF344603, AA011195, AI459660, AA689477, AI342248, BE858289, AA132540, BF966506, BF958070, AI298268, BE253399, AA635801, AW751546, AA995595, BE390802, AI089995, BF725281, AI282676, AW604964, AI719470, AA583085, AA593293, BF315079, AA729139, AA069373, AI940441, D54574, AW384914, BE671540, AA340245, AW848886, AI003397, D54696, AA156911, AI312413, AA427771, AI167483, BF822526, AI334066, AA130945, AI758341, AI348853, AI701237, BG056893, D55009, AW578066, W07297, AW604991, BE617959, AI869294, AA854599, W27359, BF057992, BF718433, BF718300, AI184838, AA814125, AA088243, AA984724, W32696, AA856797, AA397722, AI858542, BF951374, AA811595, AI266757, BF945422, W32697, AA975437, AA508200, AA156608, AA135907, AI051113, AA017372, AW604994, AA641157, BF945444, BF945443, AA903069, H49325, AI345697, BE252817, AI056127, AW374724, L47647, M16364, M16451, AR084972, M11306, M13453, M14400, M57664, M74147, M74148, X15334, M18668, M74149, K02831, M11660, AF120106, M10012, X00954, AF274307, X53859, AC005781, AC007225, M60806, X96403, M21243, X96402, M21242,

					<p>M21237, M22355, AF018084, M21240, M21238, M21239, M21241, M21491, M22356, AF207866, RI4011, R41340, R51208, H14148, H16207, H16512, H16655, H18442, H18550, H20533, H46927, H46928, R82967, R99124, H49324, H83313, H83312, H83484, H83485, H96118, N40532, N47865, N51127, N74303, N78614, W04673, W05212, W21084, W31774, W96361, AA015650, AA015651, AA015936, AA017373, AA100232, AA100627, AA120928, AA133581, AA133703, AA130769, AA132663, AA132970, AA151777, AA149785, AA156941, AA235637, AA470436, AA507320, AA524876, AA533870, AA548911, AA552182, AA555270, AA586384, AA614776, AA580039, AA665143, AA689534, AA894557, AA962474, AA983703, AA989414, W22984, W27471, C03620, AA205651, AA670322, Z19622, F22810, AA679110, AA704375, AA708228, AA719642, AA757448, AA846887, AA846886, AA860613, AI003317, AI003680, F04008, F07760, AA702641, AI309946, AI345327, AI349187, AI345761, AI199481, AI130751, AI148054, AI190828, AI201601, AI313484, AI682167, AI796604, AI914787, AI984300, AW191863, and AW339775.</p>
HKBAK06	262	994596	1 - 655	15 - 669	<p>AA292552, BE569091, AA001348, BG034403, BF680183, BF982202, BF972408, AU134714, BG255510, BF038517, BE382500, BG117853, BE267636, AU133407, AA082436, BE780204, BE535736, W44552, AU122890, BF204311, BF972973, AA081745, BF026531, AU127144, BG029609, BE904738, AU122938, BF242872, BF309946, AW960304, BE297387, BE883368, BE261919, BF033938, BE897037, BF212585, AA158070, BE569085, AA292753, AA476873, BE884804, BE269819, BE900753, BE314366, BE786840, BF035084, BF726787, AA926959, AA177048, AI719075, BE279271, BE778624, AA469909, N49786, BE706261, BE972278, AV685130, AV713469, AV714168, AV687846, BF246905, AU126674, H77575, R97470, AA037172, BG104737, AA908783, AV714475, AI935150, AA926960, W76521, BG249990, BE892033, W04339, AA405677, BE255916, BG104736, AI857576, BG179540, AV698081, R98127, AA293140, AV692796, AW662396, AA910644, AW514667, AA584410, AA889955, AA459522, AV716974, AW371701, AA583187, H78746, AW371667, AI828996, BE903886, AI865147, T55938, R75953, BF910357, W21526, W72395, AI422691, H03265, T77589, H83186, AW069734, AW613002, BE566245, W25243, BG033485, AA872039, AA527373, BF746365, AI423153, AA776920, H72525, R99156, AW104725, H03513, AW024595, AA100926, N31428, AW262230, AA621337, AW972459, AI204630, T88980, BF900364, T29812, H98460, AA772418, BE909377, BF205360, AU154749, AW886710, BF900351, AA662522, AA282997, H42079, W80565, BF507531, W95096, W24270, AI630359, AI459432, AI033892, W25071, AI423513, R54703, AI090262, AI81360, AI312104, AI804532, AA627684, N95210, AA769633, AA617681, W25611, AA416871, AI094597, AW391855, AI139549, AA633648, AI075239, AI339996, AI991988, AA740817, AA701623, N78215, AA129784, AA399239, N86396, AI362835, AI034317, AI336880, H99551, N83673, AA480310, AI989380, AU149836, AA643280, AA932124, AU117372, BF793467, N92892,</p>

					<p>AI911822, AI085351, BF795654, BF514270, AV748036, AA978045, AI078708, AI146955, AI348243, AA876046, AI085031, AA507454, BE270172, AI494230, AA962596, W44561, AI492600, AI278887, AI041437, AU155591, T99630, W80435, AA765850, W95095, BE893793, BF752229, AA157451, N24127, AI361128, AA910586, AA235549, AI537692, AI346618, H47725, AW589407, BF108854, AW300758, AA459292, AA001979, N59755, AA398727, AI129015, BF792285, AA954344, H75312, X54941, AC005913, AB025409, and AC008473.</p>
HKGCN61	263	994664	1 - 1002	15 - 1016	<p>AL526805, AL532675, BF568818, BF975676, BE378603, BE275224, AI924198, AA643194, AI309624, BF568408, BE080971, BF568499, BE385963, BF971390, BE262270, AI954015, BE389035, BF317394, AI862773, BE384108, BF316998, AW954240, BG255355, BE387330, BF215641, AI300492, AV705042, AI571484, AI708237, BE267988, AA772150, AL526773, AI963066, BE265217, AW583307, BE267984, BF207808, BE885366, AW082898, AI554351, AA905048, BG038692, BE858566, BF431959, BG031824, AW873616, AA484736, AI243757, AI924677, AW304210, AA056581, AW328052, BE386932, AI887613, N52247, AW015277, BF726042, AA037075, AI092433, AW583724, AW070340, AA446995, AI096768, AI039582, AI143962, AW021398, N39299, BF216019, AA682891, AA897545, AI241411, AA468723, AI027327, AA503806, BF569049, AA834926, AA902862, AW328127, AI091496, BE676690, AI376786, BF337861, R91343, AA448467, AA609074, AI358828, AA651870, AA143139, AA052970, AA911153, AW241215, AW290993, AI804639, AA001193, AW020020, AI024157, AW572581, AI866825, AW016319, BE907946, AW021471, AA805372, AW015233, H82552, AI400288, AA917723, AA938524, AV750655, AI037929, BE088452, AI673478, AA533610, AI290857, AW769953, W67130, R97256, AA904951, AW340505, H22433, AA053447, AI310161, F24749, BE185312, F19447, BE242972, AV746492, F28239, AA365755, H87901, H56065, F31714, AA969644, AI287714, N34577, AV660944, AW328053, R55213, AW028384, AA506078, AI050822, AA843353, AW572594, AA296650, AW884694, AI041792, W67129, AI357504, AA056685, BE677849, T84900, AI915408, AI678129, R55210, AI311793, R97020, AW151468, AI005405, AI393159, T91318, AI798212, AA770285, N91398, T55560, AA143379, BE170083, AA809332, BG010512, AA934707, N45147, AI282846, AA968881, H40291, H18341, BG029457, H38979, AW805564, BE936154, N69370, BF155976, N53131, AI918485, BF155969, BF155973, H87357, BF155972, T25428, BE938005, BF831914, AA588800, AI005569, AA885911, BE242874, BF088463, H56260, AU126287, AA889514, BE702510, BF957306, H22470, AA453054, H46707, BE185337, H39174, D20650, AK000574, AX015413, U47101, AY009128, AK022758, AY009127, AC008119, and AC007793.</p>
HTXDY55	264	994699	1 - 276	15 - 290	<p>BE241618, BF967213, AU136610, BF980823, BG167993, BE904497, BG166879, AA316320, BG108260, BF032916, BE219939, AA429187, AA446365, BE327680, AA121059, AI681670, AW651689, BG028658, AL523554, AI929475, BF210951, AI984608, AW367123, AA262627,</p>

HFOYI37	265	994776	1 - 739	15 - 753	<p>BF966433, AF035606, AK001917, and U58773.</p> <p>BG109766, BG105926, BF692516, BF664251, BF688436, BE875390, BG109747, BG035909, BF970556, AW250576, BE900583, BG026679, BE878884, BF794165, BF976452, BE736120, BG031147, BE729357, BE877578, BE795468, BF688232, BE746139, BF245353, BF338554, BF244479, BG036485, BF982066, BF313910, BF036466, BG109842, BF791758, BG034461, BG117069, BF792758, BG114839, BG033722, BE886095, BG171042, BE257620, BF307047, BE735602, BE299813, BF342847, AV701221, BF663327, BE900645, BG251353, BF727139, AV743879, BE874785, BF983850, BG112494, BF793074, BF965863, BF663279, BG036333, AI751041, BE727591, BE889746, BG031486, AV734449, BE544132, BE254377, BG029536, BE270481, BF965283, AL535797, BG107168, BG258064, BE267387, BE872741, BE738044, AV752441, BE270455, BF797372, BF036710, BG113386, BF964816, BE786378, BE879576, BE904807, BG025904, AW014150, BF965061, BE728776, BE883341, BE2660961, BF126057, BE907972, BF718407, BE905940, BE905659, BF239138, BF718612, BG122417, BG256185, BE728227, BE312855, BF240138, BF242457, AA642852, BE880883, BF718532, BE538681, AA307553, BE538643, BG029238, BF681352, AV743427, BE787767, AW327840, BF212711, BF214381, BE906403, BG120301, BF038389, BF032831, BF689246, AA308582, BE884573, BE568338, BG112395, BF718776, AA316955, BE737786, AA535287, BF102789, BE881558, AA316284, AA308670, BE874983, AA316553, BF718683, BF029119, D56272, BE737963, BG115963, AV739694, D51124, BE565428, BE738399, AV738913, AV712380, BF718622, BE784801, BE877028, BE865693, BG169727, F20819, BE298062, BF211274, BF315518, T27636, F24452, BE739645, BE738206, AW068298, BE261442, BE738273, BG034437, F37402, BF571319, BE395762, BF310625, BF697600, BE313174, BF244308, BF303726, F25324, F20636, AW957333, BE563923, BF303651, AA146868, BG110622, AA315892, N77939, BF571305, BF718598, F33134, BF125885, BE960878, AV738228, AW408000, BF210245, BF029247, AW327881, BF700470, F20282, BF238356, BF245722, F30691, AV710336, F30820, AV738364, BE906206, F27818, AA306499, BF215958, AL036559, AW404866, BE790264, BE277269, AA143290, AV724929, BF212390, AA157054, BF796856, BE277011, BE514876, BE389163, W03894, BF215956, AA385201, F24576, F28257, AA501970, AW022377, AV708457, AA533618, BF718795, F32109, BF055644, BF240053, F32578, BF238936, F30162, AA179118, AW021281, F31767, BF185361, BF791484, BE258863, AW020382, F26077, AI309282, BF669141, F31195, F26670, BE734016, AI525222, F31722, F22445, F27271, BE739184, H02747, AW518445, AW328274, F27843, AW024028, D14530, AC010598, AC005406, X77398, AB007158, AX046357, AR066494, AR060234, AR069079, AR043113, and AA541570.</p>
HOFNL18	266	994874	1 - 393	15 - 407	<p>BF982594, AA304945, BE786293, AA355289, BE882518, BG164113, BG036187, AW945552, AL522242, AL521727, BF345678, AL533751, BE018492, AA312114, BF210611, BE886709, AA495817, BF002097, W72340, BF968410, AA477457, N79824, AI669118, AI245484,</p>



HOFNT57	267	994954	1 - 1163	15 - 1177	AI372958, AW079905, N21556, AI093765, AW450650, AA099228, R56490, HI5484, AW451773, BE466523, BF448069, AW236015, AW466866, BF591093, BF742982, AL080166, and AL031432. AU130186, AL532858, AU143566, BG032538, BE731387, BG178926, BF246251, BE546764, AI130008, BE82058, BE900653, BE901813, BF131040, AW238927, BE278958, BE280397, AA146802, BG258310, BE280706, AA037291, BF130537, AW408060, BF671218, AA281910, BE958235, AW958055, BE958177, BE281535, AA304757, BF698291, BF082842, BF667061, AI378241, AA304345, BF155007, BE855677, BF196802, AA380691, AW963766, AA878646, AI702569, AW026139, AW372761, AA635825, BE855640, AW372751, BF733132, AI472824, AI016431, AA843477, AA887947, AI378170, AA744678, AI361091, AI081395, AW516559, AI003236, AA146803, AA767727, N34655, AI399815, AA380690, AW856740, AI080717, AA962414, AA661648, AI983339, BF476713, AW088309, AW304176, BE719113, AA961155, AW189866, and Y11651.
HCBMT45	268	994993	1 - 1656	15 - 1670	AL524032, AL520718, BF343440, BG114926, BG163566, AW749600, AI628088, BE903299, BF348876, BE902526, BF036229, AU121257, W47499, BF348874, BE070481, AW875044, AA326810, W04800, AW838268, BE671868, BF357960, BE547306, BF888235, BG114819, AW937280, AA434529, BE070427, AA004472, U92010, and AK022138.
HATDZ56	269	995200	1 - 1879	15 - 1893	AU117737, AU119363, BF981791, AI126717, AI052256, AU121212, BG165314, BE902257, BE536040, BG259893, AU142181, BF342007, BG164121, BG111390, BE898067, BG028752, AW189938, AU135622, BG118715, BF795161, BG169327, BG121236, BG028368, AW070663, AI885180, BE880899, BE881172, AA745594, BF306702, BG107907, BF740223, Z99376, BE539928, BE892210, BF220065, AI014817, BG249687, BE880172, AW239211, AI784576, AW073683, AA524748, BF528854, BF665628, AW327439, BE779442, BF792343, AW276639, BG122906, AW872951, N36799, AI608763, BE783594, BG231999, AA627848, BE546358, AW247076, BE328479, AI127547, BE614484, BG179876, AW960374, BF343168, BE093813, BE958181, AA166916, AW327258, AA568685, BE464835, Z99375, AA700740, AA740916, AU150439, BG033007, AA573156, AW631056, BG177074, AA099018, AI051506, AA074799, AA812422, BE613976, AA835672, AW627745, AW976548, AI185757, AA503846, AA761648, AA592898, BG114482, AA160273, AW029151, BE546491, AW517165, AA451628, AW250428, BE958175, AI138225, AA809470, W63552, AA828239, AW327612, AI371140, AI371046, AI004126, AI089539, BE539342, AU145724, AA127406, AI537332, AI190076, AA687268, BF381173, AA715174, BE206290, AI073676, AU128126, AA167073, AI278484, AA775540, AI923795, BE535848, AA524391, AA978034, W88636, AA768416, AI635344, AI025865, AA992622, AW403551, AA393865, AA721424, AI024400, AW362155, AA962673, AA856908, AA173982, W73908, AA314538, AI031946, AA593126, AA031733, AI167830, BE936495, AA100657, AI922493, AA88675, H83589, AU123056, R54097, BE697208, AW819111, AI380802, BE043974, AI752947, AI761093, AI033288,

					AA506081, BE697241, AA515785, AI491801, AI953284, AA649193, AA085335, AU156182, AA127405, AA076411, AA075012, W76601, AA305905, AA450223, AI039462, BF676192, AA112634, AA889213, W74770, AA074990, AA082732, AA725074, AA565437, AA009468, BE539594, AW079297, AA099096, AA027240, BF436509, AI064753, AW341032, BE799859, BE697250, W24030, AA076267, H00352, AA173626, AI380804, AA164763, W88554, AW105351, BF819169, AA076266, AW021312, W52167, BE697248, AA693887, BF955879, BE843057, AA403080, AA031732, AI249663, R89292, R51433, H02543, N52907, BE710775, BE183483, AA127505, BE709804, AA514558, AA164762, AA113337, AI282747, AA411811, AI459951, AW327440, AA133539, BF743248, F06634, BE081646, AA933718, AI197787, BE707578, W85987, BE392490, AA160272, BF798811, AA314358, AW393147, BF798816, AW662031, C00036, AA639385, F25558, BF679367, AI696072, H02544, H71452, AA361575, AA115764, AI720134, R54151, M29536, X73836, AL031668, AC007405, AJ294707, AC010738, AL161670, AC007934, AF076927, T47873, T73141, T74664, R07722, R07723, R09847, R10017, R11641, T83787, R15278, R16766, H47662, H47972, R89293, R93621, R99520, H94038, N45959, N55602, W73014, AA009700, AA027239, AA053334, AA058648, AA076505, AA179728, AA191273, AA588847, AA628031, AA738408, AA864670, AA876048, AA903779, AA910612, AA974650, AI083791, AA127491, AA782268, AA969406, T11052, F05216, AI380120, AI201954, AI476203, AI126113, AI300209, AI686294, AI686637, AI688217, AW166745, and AW197934.
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HNOJG43	271	995562	1 - 1016	15 - 1030	W04406, BE940226, BF818730, AA705085, AA092755, BE963676, BF745587, BF756809, U73379, AL050348, AL121852, AC010326, and AR018789. BF530931, BE887433, AA700637, BG031212, BE787285, BG032265, BG250289, BE872777, BF975368, BE888350, BG259501, BG178671, BG121264, BE385572, BG025460, AU123889, BG120763, BG176849, BE018986, BG251569, BF310080, BF796217, AL040945, BE292902, BE867768, BE778230, BE313767, BE535894, AW651694, BF203366, BE885600, BE018210, AA568104, BE263239, AW244142, BE890472, AW069664, AA165235, BG029628, AA311257, BG028398, W26906, BE873320, H29111, AA379686, BF081407, AW732839, AA165234, AA379707, AW408242, H92844, AA309679, AW732846, AA355319, AW244134, AV739862, BG030885, AB040387, H17153, AA337612, BE384475, BF811815, AA079621, BE385617, AA327809, AA453327, N89415, BF757893, AV737107, BF085282, BF358015, AI904702, AI571790, BF088476, AA028062, AA028061, AW262589, AA877545, AV737069, AL040946, AA149034, AI911678, AI264209, AA582725, AA594933, AW513329, AA488110, BG231727, AW612918, BE301689, AW673154, BE208801, AI885475, BE207777, AI678902, AA879144, AA588402, AV708243, AV708606, AI904760, AW899615, AW971745, BE208405, AA617827, BE837271, AA772717, AI281987, AW804686, AW392670, BE695785, AW861944, AA612842, AL119396, AW604723, U46349, AL119355, AW858526, AW858525, AL119522, F30775, BF926800, Z99396, U46351, AW877209, AL119319, AL119457, BF858264, AW190557, F21301, BF360811, AI685800, AL119324, AI311525, AA970639, AA954246, AA151031, AW276144, AA463498, AI302605, F36969, AA971107, BE705903, AA745842, AA884129, AA613325, AA779167, AA832350, AA907225, AW615590, BE705906, AW577135, AL119483, AW372827, AW384394, AL134525, AW861889, AW858455, AW363220, AL119497, AL119484, AL119363, AL119391, AL119401, U46350, U46347, AL119443, BF868687, AL119444, U46341, AL037205, AI904745, AL119341, BF868684, BF868697, AV744583, AW604726, AL119439, BE705905, U46345, U46346, AL134538, AL119418, AL119335, AI142137, AW511430, AL134902, AL043019, AL134536, AL042544, BE705904, AL119399, AL042984, AL119496, AW861954, AI142132, AL043039, AL043033, AL042614, AL043029, AL042450, AL043011, AL042965, AL042542, AI142139, AL042975, AL119464, AL043003, Y08915, E12650, AL158141, AL049776, L31652, AF000577, AJ223156, AJ223157, AB026436, AR080280, AX046357, AR060234, AR069079, AR066494, AR054110, AJ251859, AX030435, A81671, and AJ279014. AL523089, BE735213, BF690068, AI192441, BE793432, BE794150, AA630330, BE791668, AL523088, BE901445, BE793552, BE515306, BE276069, BF689238, BF027098, BE900126, BE562743, BE747331, BE791104, BF973064, BE733064, BE620825, AL529029, BF025872, BE311984, BE744764, AA641149, AI971403, AI049983, BE387021, BG033880, BE515093, BE796039, BG034885, BF796669, BF026756, BF685347, BG030617, BF688429, BF794151, BG117363, BG169033, BE730729, BE797697, BE728295, AI680328, BG033071, BE908570,
HSPSB95	272	995590	1 - 979	15 - 993	

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HCORG29	273	995806	1 - 1461	15 - 1475	<p>AA815199, AA830586, AA911330, AA916092, AA918025, AA919062, AA935569, AA968500, AI001185, AI074161, AI085640, U47714, N84140, N85605, W22846, AI122703, AA092477, AA211134, AA211135, AA435752, AA453192, AA454024, AA486315, AA633817, AA634340, AA668174, AA704265, AA780628, AA888802, AA772744, AA989583, AI084759, AI088054, AI094555, AI095297, D19852, D31083, F04954, F07845, F00569, F00390, F01008, F12767, F10374, AA773788, AI270289, AI280920, AI285297, AI302214, AI306575, AI340120, AI361068, AI364270, AI417315, AI583912, AI149150, AI151225, AI183602, AI189111, AI204498, AI219001, AI219118, AI219203, AI219413, AI241508, AI267764, AI282132, AI862801, AI887014, AI918389, AI918631, AI937713, AI973086, AW074320, AW149328, and AW276054.</p> <p>AL525031, AL530529, BF663306, BF971545, AW025025, BG258475, AU118761, BG032914, BF685877, BG121633, BE903452, BF981478, BF685489, BF797011, BG116837, BE620242, BG164987, AA827927, AI554406, BG249820, AI524296, AI571895, BG180487, BE740527, BF525728, BE393489, AI572859, AI811667, AI570178, BE387716, BE620784, AI884603, BE879489, BF127513, BG253264, BF663728, BE395984, BG253562, BE905611, BF219300, BE785705, AW338209, AI439999, BF211816, AW613426, AL525030, BG030951, AA156241, AA679290, BG107695, AW167595, AI819887, AI375063, W73277, BE350515, AI189651, AI610178, AA458883, AA491213, AU145990, AA827903, BE787350, AI005398, AA922921, AU119724, AA054320, AI160911, AI685114, AU145249, W05582, AI093117, AW021515, BF216780, AW022794, N30640, AA581846, AW469855, AW163065, AI266487, BE350933, AI031704, AL038497, AI372851, BE172272, AW510581, N67420, AI760129, AI567473, AA641542, AI368039, AI823984, AI669557, AW363504, AI283802, AI089726, AA551037, AI918930, AW631236, AA617652, BE856972, AI357866, AI306589, AI269694, BE715156, BG004783, W69646, AI309054, AA845918, N22717, AA829897, W69647, N24200, AA988609, AA459073, AI362823, BE265458, AI538392, AV693399, AA715103, AA132151, N30171, AA581975, AA132029, AW004780, AI687460, BF215226, AA054420, AI352565, AI758991, BF732353, BF692209, H10217, AI434220, AA025260, BF431116, BE869449, AA025338, H87399, BG222957, AW887096, AA341088, W87822, BF816282, R94593, AA076082, AA490721, AW591730, N75554, W87911, AI433500, N40816, N62299, AW952176, R36365, BF816279, AA878469, BF446815, AA618380, AV748450, AW630598, AA320520, BE768577, AI539196, AW407015, R46078, AI302689, R85306, AA056977, AA147254, R05766, BE812153, AA282256, AI587368, AI024987, AI763128, AI680889, AA341584, AW627423, R85305, R01156, AI350405, AI678578, BE075897, AA010791, AA447827, BE768617, AI173636, H59964, BF367093, H10272, N95145, AI769382, BF741466, AA931906, BF976950, AI814270, R94594, AI581915, AA282730, R92966, BG032240, BF342174, AI217691, BE812421, BF002679, AI384121, N27031, W56129, AI351715, BF571368, BE741347, H69103, AA210625, BE328449, BF799534, AI971774,</p>
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HCB0179	275	996247	1 - 879	15 - 893	BF344503, BG253745, BE884245, BE315407, BG180340, AI114464, AI744084, BF003120, AW451065, AI888992, AI431740, BF568084, AI380546, AI656998, AW300527, AI433538, BE464324, AI160803, AI874272, BF476317, AI916753, AI638710, AI952946, AA009412, AI888867, AI796216, AW051510, AI871622, AI382137, AI570640, AI136115, AA009693, AW237382, BF592115, AI916760, BF102764, BG256114, AI357604, AW206165, BF059310, BF874841, AA767400, AA962144, AV694380, AI223191, AW242929, BE791944, AV707942, AA136067, AA450010, AA047548, BF591090, AA057784, AI671950, AI803084, AA452628, AI183340, BF591405, AI810350, AW015645, AI217043, AI818009, AW182191, AI564896, AW075602, AW014905, AI357555, AI766792, AA566017, AI336131, D20857, BF668498, AI751642, BF568923, BE799110, AI364812, BE673585, BF217847, AI873178, BF954384, D31155, AI969843, BF939241, AA329597, AW169141, BF221870, AK000857, and AC003112.
HVCAB73	276	996337	1 - 1513	15 - 1527	AL518842, AU118468, AU117968, AL517493, AU117660, AU119978, AU142310, BE790938, AU142367, BF972250, BF984978, BG252995, BF684869, BE559749, BE560314, BE902291, AU128821, BE795645, BG032172, AU123321, BG110982, BE792404, BE300141, BF982746, BG113974, BF984581, BF794875, BE907107, BG257415, BF309826, BE795893, BE792464, BG028288, BF965624, BE735087, BF976730, BE799193, BF305694, AU142239, BG257876, BF529711, BE613812, BE614422, BE791689, BE885879, AL517492, BE409756, AU135389, BE783011, BG032093, BG114278, BE901386, BE618095, BG122124, BF026898, BG256177, BG251091, BE612467, BF311267, BE618641, BG107568, BE888894, BG180037, BG028062, BE278994, BE614277, BE891718, BE868694, AW947123, BE298422, BE908780, BE278771, BF979838, BG121166, AV759228, BG116644, BG108186, BE272582, BE746783, BE785332, BF316338, BF973741, BE730725, BF979294, AV698719, AL040837, BG106907, AV706709, BF311733, AA206423, AV706293, BE789022, AV706359, BE259394, BF983820, AV713317, BE543291, BF980476, BF310651, BG031342, AU134782, BG261061, BG251520, BF981835, BE396863, BG028634, AW946539, AV653256, AL035921, BE275555, BE612914, BG026070,

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HSDJH04	277	996619	1 - 926	15 - 940	<p>BE904901, BG168030, BE878351, BG259171, AW732563, N24355, AV724626, F24474, AV722309, AI261328, AW328428, BE674638, BF345021, BG255797, AA532928, F37428, AI370570, F22370, F32515, AA296010, AW070530, F33022, F31501, AA918040, F22734, BE905663, AI022292, AI929756, AI300554, AI718610, AI718646, F33373, BF793297, BF793269, BE875134, AI339442, BE855791, AI342832, AI735425, F33367, AA603132, AI695802, BE730633, AA429820, AI024066, AA031459, AA532849, AA72747, F37419, AA136087, AA873691, AI017375, AA625381, AW467861, AA994440, F30932, AA513042, AI191651, AA907866, R09570, F19496, AV741591, W52552, AI497696, BF035508, AA770559, AI369674, AA506595, AI279742, AI302456, AA320307, AA303547, AA452025, AW627910, AI418637, R28551, BE907102, BF965846, R07147, H51877, F35932, H27315, F29523, F28344, AA548806, AA535397, AA148236, R07146, F21114, BG254257, BF185406, AA555277, AA304129, AI968949, R09479, AA570105, AA876458, AI160002, AA304639,</p>

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HSOAN18	278	996804	1 - 616	15 - 630	
HHEHF49	279	996874	1 - 788	15 - 802	
HCHCF36	280	996903	1 - 838	15 - 852	<p>AA604207, BF568246, BF685919, AA769075, AI829363, AI160465, AW611817, AI365676, AA909715, BE504747, AI333819, BF828573, AI523938, BF989966, AA768116, BF091370, AI168213, AI658820, BE390437, W56333, BF987457, BE797515, BG110670, BF974205, BE745959, AI652259, BE563589, AI097626, W56246, BE880543, AU141729, AI134271, BE933141, C75024, AI933359, BF087614, BE279562, AI475845, BF314042, AI936721, BE735049, BE298845, AI933320, BE265132, AW512295, BF802106, AW498827, AI431995, AI283491, BE222982, AW449482, AA808235, BE392368, AI763116, AA814951, AA505663, AW274238, AA056204, W56326, BF036391, W56359, BE900914, AI656477, BE818925, AW162674, BF309126, BE700914, BE254984, AA055543, AI760331, BF827226, BE395139, BF229557, AI369700, AI369699, AI197948, BE048398, H81842, AW242467, BE818985, BF307576, BE617252, BE514899, BF125485, AI972328, H44030, BE742153, BF828519, BE793542, AI082336, AA459967, BE812253, BE184274, AU130605, Z25808, M77198, M95936, D30041, U22445, X65687, X61037, and AC002364.</p> <p>AL530933, BE744244, BE886518, BF307394, BE886078, AA521306, AI346509, AW014616, AU154742, AU160803, BF307330, AW662413, AW043807, AW000956, BF434533, AU159740, BE350868, AL530932, AU153954, AA031263, BF897515, AU153595, BF223978, AU146675, AU152826, AA524349, AU143944, AI340333, AW128969, AI826348, A W305306, BF062439, AI564106, AW304346, H71784, BE878383, AI161344, AI262022, BE504256, BE326650, BE504858, AI039240, AW162372, AI962737, AI309252, N76604, AI815896, W69677, N94090, AI935385, AW271271, AI948839, AA010408, BG004347, BF091918, AW513419, AI289056, BF055132, AI638198, BE219405, AW008633, BE676811, AA532714, AA632276, AA040180, N54492, AA570140, R98609, AW025830, W69676, AW510423, AW073235, AI694628, R15330, H71783, AI886412, AA582538, BF798373, AA635538, AW578114, N69270, R98610, AI917180, AW014409, BF886580, AI383709, A W078973,</p>
HAHCK58	281	997127	1 - 1797	15 - 1811	



BF888376, R96473, AA011236, BE139647, R96472, W23106, AW044241, H37813, AA377991, BF897459, F16253, H75768, BE090852, R78149, AA323463, H37864, AA770070, A1222936, BF737167, H75904, AU117001, AA031337, A1367688, W07590, A1823334, AA040181, A1453543, H67441, AW375895, R77788, A1630685, BF798370, AW000974, AA219406, BF091159, BF091899, AA693496, AA609001, H67387, R45504, AU134927, A1872776, A1472899, AV764371, BE867933, AW194032, BE967456, AW997941, AW351834, BF091195, C01873, AA367973, R24771, AW132078, BG177469, A1436065, N67327, BE765933, A1670001, F21760, AV745723, BF991903, AW374683, T19904, AL514691, A1873765, AV745724, T17187, AL514791, AL513755, AA613907, BG258600, BE964876, BE909398, N42321, A1312428, AL513907, A1048656, A1932953, AV682697, A1888953, AL514543, BF990167, A1873731, AV710950, BF960601, AV758738, AV682772, AL514129, AV681869, A1906328, AL514261, BE047691, AA493647, AL514935, AV756150, AW813006, BE172767, AV699193, BE965095, BE966775, A1813986, AW954031, AL041562, A1149592, A1886415, BG032214, BE877540, BE164610, A1907070, AW162189, BF870154, BE905415, A1624859, AV762619, AL514421, BE613880, AV735022, AV682385, A1382201, A1813914, AL515047, A1348901, BE971716, A1907061, A1344182, BF814018, A1678989, BG151247, AW946760, AW168031, BG034550, BF037607, BE964741, AV693157, BE968711, A1682106, AL513687, AW132121, BE789764, AL513991, A1338342, BE881134, A1635942, BF108084, A1335426, A1348777, AW004886, A1364788, BF793324, BE877901, BE904051, A1570966, AV682645, AV727614, BE905250, A1609580, BF340889, AW168320, AL514579, A1434242, AL514529, BE785868, AK001138, AK021440, AL050146, AL049938, AK024538, AK024601, AR013797, A1242859, AK000614, AK000212, S79832, AF022363, I48978, AL122098, AX026823, AK026522, AL162006, A07647, A58524, AF065135, AF113699, A08916, A58523, AL133606, AK000083, AF262032, AF178432, AR011880, AL110222, AL110171, AK024524, I89947, AF113690, AL121656, A08913, AF321617, AL389935, AL137300, AR038854, AF067728, AX042059, AB048974, AK025349, AF155221, AK025573, AL050108, A08912, AL137641, A08910, I89931, A08909, AF111847, AK026542, AR087170, A08908, AB049758, AL389939, AK026592, AL137276, AK025378, AF113694, A18777, E06743, AL162062, I89934, U00763, AK025967, AK000445, AF119871, AL353957, AK025491, AL359618, AF090896, AF158827, X93495, AB046642, AF111851, AF130104, AF305835, AK026950, AK025708, E15569, AL133072, AL133560, AL133637, AK000652, AF118094, AK026480, AL137560, X92070, AL080137, S76508, X98834, AK026464, AF114170, AF116676, AR083266, I26207, AF118090, AL133081, AL389957, AK026746, AB048975, AF130077, AL442072, AL359620, U42766, AL137521, AF113013, AK026532, AL137539, AB019565, AF078844, AF130087, AB047248, E05822, AL137478, AK026057, AL133080, AB041801, Z72491, AK025209, A90832, AK027164, AF130068, AL096720, AX027129, AL137527, AL137294, AL050393, X65873, A03736, AB029065, U51587, AK025383, AB049848,				
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HET1106	282	997165	1 - 371	15 - 385	W04730, BE266365, AI133648, BE793925, BE559709, BE790580, AL518848, BE865465, AL530857, BF132480, BE740884, BE795484, BE793563, AI304872, AA741065, BE865290, BF683810, W80875, AA122216, AA308813, AA284386, BF326544, AL355392, AF161516, AK023992, and AF152097.
HAPOE30	283	997595	1 - 2897	15 - 2911	AU117247, AI126490, AV717396, BG104731, BE501285, BF056914, AI094852, BF796496, BF063299, BG256800, AA454987, AA454988, BG114650, AW080282, AW966631, AW168948, AI336277, AA772322, BE220380, AI859792, AI417858, BE466892, AW103075, AU159373, BE504285, AA918401, AI432403, BG230590, BE673392, BE670742, BF725058, AA410511, BE540683, AA083340, AW594055, AA418120, AI949050, BF112235, AU144138, AA679107, AI708897, AI376002, N78061, AA477527, AI700609, AA828552, AI991181, AA417942, AW168995, AI139660, AI021901, N25477, AI004673, AA411601, AA024709, N49529, AA693511, AI985704, BF343591, W60152, AA778693, AA180440, AA418978, AI767329, BE350692, AI242979, AA577408, W51942, AA524990, AW195065, AW028525, AW953384, N49287, AA418805, AW243797, AI246226, AA024727, AW008941, AA757727, AA527910, AA074180, C05139, R67172, BF348935, AA813662, AW971329, W94122, AW614468, AW513979, N58471, AI868472, AW182171, AA707715, AI183895, AI927765, AI620107, BF508176, R59987, AI654118, AW204432, H44803, AA352918, AA295664, AI499474, AA363317, R09270, R26284, AI784077, AA385639, R25459, H95934, AI572507, BE160130, AA885993, AA363316, R35885, R35884, AW993480, AW023692, AA721410, R36442, AA251090, AI864808, W94018, AA579940, AI872496, AI249523, AW993214, R36160, BE817052, R58756, AL513907, AV729890, AL514919, AL514627, AL513597, BF054789, AI985363, AL121270, AL514691, AV655645, AL514791, AW071349, AW827203,

AA362948, AL514087, BG036846, AI868831, AW303152, AI349772, AL515041, AL135661, AV681951, BF883916, AV681630, AV682252, BE785905, BG108324, AL513631, AV733397, BF724691, BG179993, AV758806, AI815383, BE048071, AV704350, AV682479, AL047042, BF971016, AI538716, BG058208, BE047863, AV723772, AV757598, BF795712, AV723204, AV711924, AV681858, AL036396, BE964812, AI064830, AL513803, BE964700, BF673434, BG260037, AV757455, AL046849, BG107847, BG108147, AV723062, AL045500, AV682772, AL514803, BE048163, AI349645, AV682466, AV682476, AL119791, AV734318, AV758110, BF343172, AV711509, BE048081, AW268253, AL119049, AV757012, BE877769, AV758217, AV681668, AV762488, AL513779, AL514935, AL515047, AI436456, BE965891, AW162071, BG114104, AV715263, BE965095, AV681857, AL513553, BG168696, AL036802, BF968041, BG029399, AV682521, AV682809, AV710479, AV758592, BF968493, AV755581, AL120854, AI500553, AV723953, AV757943, AV682051, AI433976, AV756477, AW827249, AV755613, AI500077, AV705644, AI207510, BG105099, AV755614, AI340582, BG250190, AV682289, AV682074, BE048319, Z75330, Z75332, AF255017, AF070586, I48979, AF130105, AF090934, AF090900, AB048953, AL133640, S78214, AF130104, AF116644, AL050146, AF116631, AF116602, AL133016, AF130059, AL050393, AF113691, AF116646, AF116639, AF130075, AL442082, AF078844, AF116691, AL117457, Y11587, AL389978, AF113013, AF118064, AL110196, AR079032, L31396, AL442072, L31397, AX046603, AF118070, AL157431, AF090943, AF130082, AF125949, AL049938, AF104032, A93016, AF138861, AK026608, AL133606, AL137527, AF113694, AL117460, AF090901, AB049758, AF116688, AI242859, AF090903, A08916, AL390167, AL080060, AF218014, AL049452, AF113690, AF111847, I89947, AL359596, S68736, AK000212, AF130092, AF119878, AL110221, AL359601, AL050116, AF113676, AB050510, AR059958, AB047615, AF106862, U42766, AF113689, AL122050, AL050149, AF090896, I89931, AK026865, AL122093, AK026741, AL133075, AF119875, AB048964, AL050108, AB041801, AX019230, A08913, AL162083, AK025084, AK025958, X84990, AK025339, AK026045, AL162006, AX019229, AL049466, AL096744, AB019565, AF017152, AF113677, AL133557, Y16645, AL080124, Y11254, AL049314, AL137557, U91329, AF113019, AL050277, AF219137, AL080137, AF119899, AF158248, AF113699, AK026855, AL137283, AL133093, AF146568, E03348, I48978, AF116649, AX006092, AL133080, AK026744, AL389982, AR011880, AK000618, AF111851, X63574, AJ000937, AL133565, AL122121, E07361, AL137459, AK026533, AL122123, AK026784, AK026592, AB051158, AK025772, AK027096, AL359618, AK000083, AF314091, AF091084, AL110225, AL359941, AF097996, AK000137, AB052191, AK000445, AF207829, AF119909, AK026452, AF125948, AK025092, AK026647, AL117394, AL137550, AF271350, E07108, AL050138, X82434, AK024538, AB048954, AF177401, AK026542, AL133560, AF079765, AF242189, AF225424, AF017437, AR087170, AL049430, U00763, A65341, AK026583, AK025491, AK000652, AK026927, AK026353, AL117585, AL353940, AL359615,
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HRGDC33	284	997862	1 - 1826	15 - 1840	AL530171, BG167455, AW341526, AA143021, AI621276, BE695940, BF540992, BE695955, N34863, AW593873, AL530172, AW196758, BF223067, BF223008, BG054486, AI392748, AI807788, AI147923, BF666752, AI634124, AW204647, BF438607, AA293879, BF476285, BE866767, AW276898, BF434775, BF103871, AV712302, AV711800, BF983985, AI392984, R63482, AI680602, R63481, BF507828, BF688635, BF908078, AI795905, AI444949, BG178163, BE048998, AW269138, BF689020, AA251885, AA150912, BE566036, AW884530, F34562, AW801105, AA872641, AA321262, AW082114, BE001578, AW674054, AW961602, BF913145, AA937288, F29869, AI924910, AI908447, AW800341, BF746755, BF215227, N43936, BF676410, AI969745, BF061733, BF796686, AI990282, AW884388, AL109918, AP000568, AP001676, and AR022362.
HMTMB91	285	997873	1 - 1162	15 - 1176	AV755264, BF577013, AI923558, AW268804, AW469653, AA760854, AA580566, AA580691, AA836465, BF899990, BF926478, AA768321, BF514639, BF088900, AW392416, AI885519, BF061715, BE888827, AW129764, AI951031, AW858464, AI936012, T40389, AW392849, AI820997, AW858513, BF950338, AW836417, AW392833, AI821288, BE503330, AW837691, AW750461, BG114047, AI275943, AF109907, AC004858, Y12017, AK026107, AR060046, and AR060053.
HFAAD07	286	998059	1 - 988	15 - 1002	AV684787, BE674615, AI887753, BG258585, BE218749, BF224413, BG165003, AI702451, BF224407, AA548464, AI978680, AA071156, AA191693, BF570780, BE738364, AI797896, AI826052, AA041342, AW014334, T62575, AA197202, AI084270, AW375498, BE775118, BF333162, AA188647, BF431428, AU155686, AA602203, BF751398, BF365027, BF155009, H10377, H20737, T63199, AU117290, R71297, AI829554, BE645507, BE815650, BE247171, BE701182, T62541, AI659397, AI868867, AI810306, R40856, BG110361, AI701277, AA602213, T62616, AI221666, AA070862, AA860281, BF718478, AA191265, BF088816, BE090765, BE840583, D25992, BE704032, BF692434, AW754457, AW363933, BE540276, AI217112, AA528408, BF981414, BG015645, AI633390, AV727030, AI199435, AK023434, AB029036, AI132948, AF119043, AL035410, and AK021491.
HE8TG67	287	998517	1 - 1884	15 - 1898	AL537729, BF346881, AL536527, AL517563, AL518650, AL525543, BE621523, AL536921, AI040011, AL531577, AA704144, AL516123, BE271006, BE540109, BE619747, AL533503,

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<p>A08913, AF130110, A18777, AL133619, AL389957, AF090900, AF116682, I89931, U91329, AL133557, A08912, A08910, AR087170, A08909, AF017437, AK024588, AF132205, AL050024, AK000618, I33392, AK000212, AF153205, AK025798, AK000310, I09499, AL133014, AK025465, AL137479, AR038854, AK027116, A08908, AF090896, L04504, S76508, I89934, AF116644, AF119883, AF090943, AK027121, AB048953, AK000250, AF119857, AK026608, AR083266, Y16645, AF028823, AL049382, AB047897, AX019230, AF225424, AL080154, AX011676, A07647, AL359620, AF208026, AF056191, AL050393, S78214, AF113691, I29004, AF130104, AL050146, AL162083, AF119896, AF143723, AF119859, AK026741, AB049853, AF090903, AF262032, AF117657, D16301, AL137547, AF155827, AL096751, D83032, X66871, S36676, AL049283, AL122050, I46765, AK027204, AL117585, AR079032, AX046842, AL117394, U42766, AX019229, AF113013, AX012188, AF113689, AR034830, I96214, AL359622, AF218031, AL353957, AF111851, M30514, U58996, AF202636, I17767, AF111849, AK026647, AF106657, AJ005690, AL133104, AF116639, AL133558, AK025967, AX047644, AF218004, AB050421, AF185576, AK000083, AJ238278, AK025349, AF242189, AL353940, AK000391, U80742, AL122093, AL080126, AK026600, I00734, AB049848, AF267991, U75932, AF314091, AF116691, S75997, AL050277, AL137526, AK025391, AB048888, AL110196, I03321, AK027146, AF026124, AF218023, AF116646, AF254119, M27260, AF130068, X54971, AF138861, E00617, E00717, E00778, U57352, AL359615, S77771, AF178432, AL133113, AK026506, AF175983, I89944, AL133560, AK026534, AF100781, AL049324, AK024992, AK027102, AK027096, AL137557, AF159141, AL137478, AF218014, AL390154, AK026642, AK025906, X70685, AL049314, Z72491, AB047941, U53505, AL117583, AX017991, AK025209, AL137459, AB048974, X52128, AF130105, AK027164, AF017790, AL137529, AB050431, T92736, R33834, R33835, R33993, R34880, R36088, R36183, R41327, R53706, R41327, R72170, R73657, R76025, R76227, R78754, H15810, H19741, H20074, H26185, H28046, H39612, H42479, H44400, R85909, R87326, R88467, R90835, R90836, R90927, R96270, H51203, H51431, H51570, H51940, H92747, N31624, N62322, N79443, W37310, W69152, W69277, AA016048, AA016059, AA017717, AA029411, AA029277, AA065039, AA071000, AA074465, AA113882, AA171923, AA533376, AA551621, AA551734, AA584329, AA568455, AA657809, AA745127, AA761504, AA804720, AA834831, AA857175, AA968508, AA976763, AA291776, AA427412, AA476955, AA669654, F22178, AA852221, AA861255, T03330, T03513, AI027029, AI080033, AI122866, T15399, T17025, AI439358, AI560117, AI566983, AI567273, AI570382, AI582975, AI584181, AI624390, AI627996, AI183819, AI654280, AI272156, AI587318, AI613240, AI689548, AI690603, AI744851, AI745467, AI799307, AI859423, AI859509, AI919574, AI953465, AI963535, AW016491, AW088681, AW071042, AW128909, AW130417, AW131920, AW152670, AW197018, AW078705, AW079199, and AW337323.</p>	
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HACNC39	288	998333	1 - 527	15 - 541	BG258323, AV726190, BG059174, BF031580, AW247693, AV733393, BF673590, BE393632, AV718256, W33034, BG223143, BG027098, AA316722, BF540944, AV740290, BE620501, AA761185, W76104, BE880515, W72590, AV712501, AI373016, AW951730, BF343423, AI301029, AW516518, BE336891, AI973019, AW954688, BE267264, F19333, AA642858, AW275727, F24037, BE886443, R98379, AA293612, BG029810, AI074416, AV682189, T30842, AI193781, AI709082, AA010642, BG178022, BE206642, AW163422, AI369744, BE737738, AA972242, AA505959, W30911, AA622015, AI479908, N39461, N99973, R89095, F24482, AA081027, AA502036, R89203, AA035242, AV758359, AA573301, BG116673, BF976770, AI205784, W69222, AI301695, H55975, AA081028, BF028555, N95321, W01264, AI719663, R98380, AA861810, W07432, BE744309, W57656, AA927506, AI719437, AA226340, AA226339, AA659132, H55976, AA635460, BE263378, AW004852, BF208315, AI096433, AI885213, AI097113, BE858122, AA935727, AA935732, T64927, AA128637, AI282165, AI299205, D31544, AI087422, AI299261, AA977268, AI493422, AA535488, AA927717, BE738497, AI028146, AI027821, AI288435, AI590079, AV744150, AI758305, F32365, AA601928, AA862695, AA910891, BF082399, AI867500, AA601890, W69078, AA535582, AA011251, F22069, AW162386, AI554628, AW157546, AA514029, AA527091, AA514433, AA948196, AA307500, AW163423, AW841585, AI266428, F36879, AA304694, AI277191, BE620900, T34355, BF687997, D11824, F29996, AA127824, T19184, BF988606, AA852606, AA480469, AA385328, AA046538, BE045065, BF678637, AI880263, AA128770, T39525, AA837248, R66514, T67659, AI580758, N73968, BE567125, BF217569, AA680363, AA301822, AA055001, BF246041, T32179, AI879869, AI143015, AI141685, AA010673, AA177089, R67830, AW964427, R30686, AA973995, AA572821, AA282316, T30691, AV715207, BF743095, W24587, AI468069, AA321070, AA358416, AI445120, AA996068, AI014448, AA908418, AA931480, AI148889, AW583730, BE045228, AA045468, AI467821, AW583317, AA308501, BE049525, AA962130, AI148886, H47357, F37883, F27165, N70956, W35401, AW151841, AI148586, BE833126, F31392, F17340, N75848, BE174000, W03741, BF819345, AA092713, BF541948, BF819342, AC008752, and AF318186.
HCOQP78	289	998901	1 - 1051	15 - 1065	BF038501, BE743899, BF032818, AA587273, AI470221, BE501242, AI566249, AW590780, AI963941, AI916929, AA933987, AI656124, BE672062, BF508514, AW873183, AW801187, AW610294, AW998772, AI914774, AW610295, BF915088, AW998876, AA320217, AA343629, AW965060, AA401047, AA400995, AB008927, AB008390, AF055982, AB009849, AF095742, AX002035, AF095743, AF251125, AF243527, AC011473, AB012761, AB010780, and AX002037.
HCGMA67	290	998905	1 - 2397	15 - 2411	AL516908, AL529636, AL526532, AL528012, AL522876, AL521127, AL526488, AL521128, AL516907, AL531189, AU122740, BE745665, BE250550, AU119700, AI743606, BE798628, BE736968, AU125167, BE797870, BG112405, BE902115, BE560581, BE734679, BE793368, BF969559, BE620400, BE268360, BE736647, BE902108, BE728049, BE796873, BE870756,

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HSKHK19	291	998968	1 - 1335	15 - 1349	AL519526, BE256801, AW130128, AW970424, BE621017, BE787578, BE621643, A1589581,



HAGGR59	292	999124	1 - 584	15 - 598	<p>AI949575, AI818124, AI589840, AW081864, AI912753, AU145975, AI634482, AI563933, BE223113, AI074607, AI569706, AI814661, AI373372, AA496332, AI860757, AI184874, AI812006, AW275925, AW275923, AA443603, AI866518, AI049612, AA535149, AW104765, AA446619, AU146067, AW938784, AU119822, AI377544, AL519527, AW613441, BF510601, AA496667, AA910533, AA568546, AI033588, AA457153, BE676768, AA454523, AW170554, AA187136, AI241929, W72667, BF530659, W06898, AA699709, BE540686, AA074340, AA367858, AA443905, AA577051, AI928605, AW151489, AA367893, AI656686, BE702465, AA379678, D63303, AI017693, AA513395, C02140, BE702440, AA676828, AW751107, AA476663, BE048320, AW337952, BG004582, AC004890, and D30612.</p> <p>BE784070, BF002337, BF514872, AA568401, AA579465, BF967065, AW752043, A90832, and AL121674.</p>
HOPKS83	293	999148	1 - 2249	15 - 2263	<p>AL522393, AL533573, N99342, AL516958, AL535381, AL523241, AL535062, AL522394, AL53382, AL516957, AL523240, BE562445, BG105219, BE612965, BE312728, BF312923, BF315986, BF035342, AU118409, BE743128, AU119979, BF317065, BF315006, AI911669, BF206582, BE378738, BF314738, AI920919, BF307782, BE393973, AL517298, BG105346, BE299566, BF312608, BE336625, BE743194, BE899095, BE878702, BE314539, BE299463, AI863032, BE382388, BF793901, BE299754, BF033995, AW956858, BE336951, BE263982, BE299939, BE794536, BF204946, BG117746, AL517299, BE540363, BE746220, BE889577, BF310262, BE296433, BF032410, AI630771, BE262722, BF206365, BE881335, BE792711, AI962939, BF038482, BE736530, BE262374, BF983571, AL041532, BE222837, AI203519, BE747404, AW474516, AW860949, AI467799, BF038659, BE395887, BF205799, BF984646, BF035677, AI446105, BF033792, AI683133, BF207213, BE390734, BE880386, BE797748, AW084757, AI623575, AI198705, BF317016, AI688407, AI131027, AI951929, BF035073, BF724131, BF034309, AI680339, BF361335, W63745, AI802236, AI620096, BG117568, BE395019, BE963719, AI631270, AI017269, BE382313, AW404858, AA069776, BE217748, BE161881, AW131659, BF306325, AI146732, BF741443, AL041531, BE260390, BF811734, AW951865, BE963088, AW516123, AI126564, AI376222, AA399190, AI473708, BE298239, AI024470, AA069813, AI693963, AI038226, AA557265, BF832766, BF038178, AI146374, AI310457, AI371081, AI302272, AA613136, AI148411, AI080066, AI469677, BF315092, W58405, AA031461, AW301060, BE743266, AI366166, BF812723, AI097537, AI199004, AA479914, AW575954, BF956421, BE260076, AA156788, BE391447, BG169831, BG015923, AI814687, AA728764, AI859489, R72685, W74501, W61097, BF092603, BF092637, W58479, BF811740, AI683174, W79724, BF092611, AA974665, AI874214, AA156877, BE395715, AI568464, BF590686, BE336638, AI743500, BF948695, AI538384, AI039247, BF948453, AI149388, BE830442, BG059628, AA394042, AI625093, AW630225, BF092602, AI274730, BF446367, BE261854, AI040040, AI810483, N94374, AI446509, AI658968, AI367239, BF912314, H48071, AI018149, BE019825, AI589495, BF948722, W58139, AW511638,</p>



HE8CY70	294	999157	1 - 1830	15 - 1844	R21300, R24774, R36859, R38515, R43031, R46146, R48308, R48410, R48837, R48836, R50605, R43031, R46146, R70155, R71373, R72615, R73704, H14786, H15694, H15747, H15786, H17811, H17812, H20794, H22611, H40823, H41607, H43789, H45364, H47720, R87510, R88795, R88794, R89030, R89726, H50894, H60992, H84383, H89495, H89641, N74100, W19372, W42783, W42898, W44469, W57868, W78899, W79097, W84333, AA025892, AA031482, AA040320, AA158788, AA158789, AA161030, AA427424, AA501350, AA523346, AA535958, AA541255, AA635851, AA744728, AA858101, AA873146, AA876672, AA894659, AA937250, AA976782, AA995084, W84394, C03893, AA292288, AA448902, AA453017, AA476579, AA722416, AA835064, AA852464, AA283459, AA860458, T03398, AA971995, AA947590, A1016219, A1039549, A1066699, A1086910, T15385, T17105, Z41095, T16680, Z45379, F01667, D45708, F04904, F05415, F05955, F07313, F08033, F09125, F11540, F13021, F13479, R12105, F09201, F10617, A1282756, A1288425, A1363724, A1453295, A1418866, A1471189, A1500689, A1131529, A1147105, A1247641, A1278086, A1291822, A1682136, A1682565, A1689335, A1696603, A1858413, A1918457, A1922927, A1953304, AW057752, AW073356, AW073834, AW074319, AW129483, AW138948, AW152247, AW166772, AW243760, AW264088, AW275276, AW189508, AW193597, and AW338298.
HE8CY70	295	999243	1 - 1791	15 - 1805	BE797192, BF530420, BE745297, AU117223, BF527457, AA496607, AU123909, BE872588, AW882094, BG013957, AU121939, AW351481, N79880, AW959439, F11971, AW693216, AW390117, BF931676, BF742689, AW997245, AW937846, AW800106, AW796165, BF931403, AW899383, BE700047, AL042881, AW899297, BE699796, BF19802, AA300925, BE149577, AW899299, BF743447, BE699998, A1570163, AA366791, A W899558, AU147665, A1978630, BF436552, BG010862, AW001282, BE700284, AA662508, A1635169, AW170627, A1890519, BF509786, AW130855, BE706148, A1783780, A1983256, A1801585, AA323509, A1193784, A1400088, AW009844, A1288952, AW166951, BE838621, BE819028, A W937780, AU151740, BE819006, BE838640, BF475968, A1983330, A W009053, BE819041, BE838648, AU129660, AW026864, A1199344, A1369124, AA348716, AA400881, AW117735, BE838678, AW169754, AW104779, BE904184, AB007867, X87904, and A1011415.
HPCT153	295	999243	1 - 1791	15 - 1805	AL535256, AL534951, AL537065, AL534840, AL532662, AL534290, AL534839, AL537766, AL536321, AL536486, AL519773, AL519772, AL534970, AL514450, AL536487, AL532832, AL515338, AL532707, AL517308, AL533170, BF966574, BF966824, AL533327, BF969218, BF312752, BF966857, BF971333, AW954554, BE741256, AU138028, BF348305, BE742610, BE746943, AL528920, BF966861, BF791964, AU134706, BE382457, BF793547, BG036726, BF206971, BF793341, AU136569, BF788895, BF793833, BE314586, BF2528036, AU139364, BF315334, BF528947, BE786032, BF969765, AV705152, BG031513, BF970234, A1795976, BF966199, BE383501, A1147046, AW857216, BE784831, BF966444, BE259799, BF951728, BF527213, AL537064, H93036, BF951951, BF260158, BF951931, BF793344, BF951912.

					BE272344, BF951882, BF951932, BF963797, BF793532, BF736319, BF967394, BF951823, BF206351, BF951943, AV725277, BF951844, BF310484, BF949141, AW950826, BF951921, AU155587, BG059659, BF951954, AA719571, AI903103, AW749442, AI139513, BF951914, AW055120, AW131760, AW206300, BF951948, AW007367, AW264054, AI479930, BF951891, AI889398, W22161, R98577, BF949145, AW022868, AA325961, W22547, BF951947, AI859274, AI937045, BF953182, AI674931, BF953774, BG059945, AW152390, AI421167, AI358946, AA351952, AA663971, AI570626, AW089614, AI816506, W23165, AI051421, AA223984, BF953890, BE383629, N64719, R59538, AW149616, W27223, AV748063, BF951940, AW088186, W22654, AA310910, AI127971, D50971, AA306133, W27691, AW601592, BF955877, AI968976, R99795, BF955880, W03949, W22668, AW023138, AA706039, BF827795, AA703119, AI863979, AA192563, AI214599, BF950362, W02054, AV649467, AI800651, AI351330, AA757687, T87574, AA719332, BF822783, AA192562, BE785696, AA224049, BE929872, H93941, H72692, AA324409, AI003374, F02699, AW051906, AW269062, W04337, AL517307, AV658059, AL515337, D55737, T28035, BG060133, BF883931, AL039136, T09093, T79847, R59539, AV729572, AI887005, AI735763, N67344, AV657216, BF883521, AA322725, AA323255, AA349534, R98578, AA325538, BE831381, AL534950, R87067, AA326612, AA349535, N66726, AA323468, R87722, W22251, AA324221, D55158, N91734, AA324648, D55834, AA210629, AA296762, AI584149, BF880245, N54059, H93942, R10276, AA349995, AI366374, D55097, AA322362, BF967818, N74171, D54022, T09092, AW118389, AA349102, N62326, W23146, AA688362, AA361639, AA365254, AA364990, F06406, BF953892, AA322496, R10277, AA319307, AA922978, R49790, F05496, BE766476, F01765, D29808, L10373, AF241727, AF241728, AI250569, D10653, AB047628, D26483, AF052492, AJ250563, AJ250566, AJ250562, AF241726, AJ250565, AJ250567, AJ250568, AJ250564, R49832, R86940, R99022, N73888, N93505, W21317, AA678299, AA757808, D25600, and AW090504.
HOPKN50	296	999313	1 - 1689	15 - 1703	AL531915, AL527360, BE903220, BF684028, BE561023, BF984727, AU129601, BF978548, AV718036, AW955129, BG257162, BF665251, BF667950, BF219086, BF038467, BE889796, BE565202, BF244797, BE564344, BF218992, BF576929, BF977553, BF976962, BF029347, BF540908, AL527307, AL531914, BF246890, BF687621, AA312280, BE940500, BE566742, AA700427, BF700934, R92253, BF977894, BF246242, BF666100, BF994346, BF001266, AI954614, BE503512, AA249583, AA188980, AI955047, N88235, AA249666, AA189047, BE857720, BF899120, AI341285, AI341287, BE543964, AF017790, Z59345, and AJ236630.
HAPAI17	297	999778	1 - 1280	15 - 1294	BF033653, AW444993, AI871043, BF032343, AI807343, AW510878, AI950459, AI826126, AA447467, BE857146, BF509983, AA001932, AA446661, AI859171, AA872128, AA922684, AI083866, AW297393, AU138791, AA775527, AW262576, AI361621, BF033189, AU155748, AI933363, BE645182, H13820, AA670262, D45494, BE899588, AA228815, AA315799, AA977654, AA683497, AI586990, AU134985, BF853051, BE315005, AW890841, BE788343,

HHAUV59	298	999808	1 - 1896	15 - 1910	AW769578, BE746090, BE019946, BE612484, BF035920, BE301953, and AK001832. AL048447, BF312839, BG024591, BG117134, AI678749, BE839416, AA675912, BF307871, AI765059, AW572765, AW007348, BE675880, AI885787, AI435265, AI075277, BF934019, BF309250, AW964131, AI524738, BE297104, BE933325, AI383625, BE773064, AW269313, AI522069, BG253109, BF933881, AA675911, BE888599, BE048871, BF056045, AI827292, AI830068, AW204343, AW001183, AI633366, AW732389, AA378192, BE047068, AW899221, BE743381, BF800703, BE747149, AW501959, AA312335, AI632305, BF057718, AW001192, BE258013, AW471190, BF935373, BE545235, BF034266, BE019131, AI763226, BF305211, BG004997, BF109329, AI187053, AI970090, BE440030, AI492245, BE140494, AA460452, W00626, AI628639, BF569680, U73200, AF311311, and AK025229.
HTXLL31	299	100031 5	1 - 2567	15 - 2581	AW851285, AI307751, AW851000, AW850996, AW851276, BF111184, AI860767, AA151346, BE326805, AI670955, AI670956, AW474917, BE962693, BF057083, BF692970, AI762646, NS4275, AI304947, AI129360, AA431590, AI653467, AI523805, AW816568, BE933761, N78023, AI188725, BF684485, AA429000, BE046482, AI417222, AW003359, AI690557, BE222504, AI335940, AA035134, AW627685, AI765632, AI276573, AI301819, AW026872, AI285087, AA088713, AI262798, AI000876, BE698558, AW206586, AI341622, AA035133, AA088715, AI373092, AW851281, AW367644, AA088714, AI767023, BG223175, BE939909, AW851279, BF926936, AI537741, AW194241, AI138638, AA100747, BE010120, AI251120, BF223753, AW630988, AW166773, BF350566, NS8715, AI289411, AW339814, BE243498, AA341869, AW339823, AA811859, AV650677, AW865812, AV654828, AI262069, AV657837, AI610516, BF196451, AI473271, AA431459, AW300347, AI631804, AW771246, BE153798, AW374420, AA100730, AI696300, AA135161, AW849214, AA135257, AA216017, AW865611, BE613126, AA149246, AA665876, AA341868, AW050441, AI174474, AA227718, NS8433, AA249421, BF353512, AW391686, BF810441, AA535957, BE926241, BF885921, AI123195, BE174780, AI345415, BF911517, BE612556, AI345612, AI568293, AI345416, BF971669, AI654276, R36271, AI590043, AI370322, AI333104, BF763458, AL036901, AI520964, BF911521, AI583578, BG260817, AA761557, AV718258, BG179795, AI690813, AA618618, AI621341, AA814343, BG025897, BF997967, AI539260, AI918677, AW075382, AW085373, BF726255, BE439844, BE966699, AI638644, BE886790, BG257360, AV747571, AI434969, AI538850, AV756182, AI568061, AI282669, AI927233, AW955313, AI368579, BE620296, AL040243, BF970768, BF726231, AW167215, AI811840, AI500061, AW083572, AI419826, AV755821, AL046942, AI698391, BF792047, AV682387, AL039276, BG113299, AI499279, N25033, AA555145, AI744268, AI923989, AI370623, BE965129, AI826230, AW630386, BF725395, AW083573, AI866469, AW827289, AW128834, AI537677, AI580027, H89138, AI699175, AW020561, AW005029, AW263709, BG166654, AL039086, AW020419, BF765551, AL037602, BF835240, BF310166, AI679550, AI863002, AW959800, BE778453, AA749449, AW168406, BF344359, AI364167, AI635528,

					AL037582, A1287476, A1500658, BE393784, BF999944, BE047737, BF812963, AW161202, A1582912, A1658566, AV682054, AV704051, AW084151, AL120696, A1491852, C21335, BF343447, BE729660, AL036150, BF792928, AW025279, AW983783, A1473536, AL157431, A15345, AF118070, AF155148, AF026816, I33392, Y00093, X79812, X99971, AL389935, AL442643, AF124396, AF155827, I89947, AR022283, X66366, AL133619, A86558, AL157480, X83544, X59813, U49908, X97332, AF119336, AF143723, AF111851, AF076633, AL137554, AJ250403, AK026633, A77033, A77035, AK025407, X15132, AF159615, AL133637, AF130066, AK025113, AF232009, AF106697, AL137529, AL096728, AR050959, AF130055, AK026541, AR079032, AF178432, AF130105, AL133623, S36676, A65340, E03671, AL117587, I09499, AL137256, AF267849, AR068466, AL389982, U77594, AB016226, X66871, A65341, AK026885, AB048881, AL157464, AL11849, AL122100, A91160, A91162, AF116682, AK024533, AB040710, AF112208, U75304, AK026534, AF119883, AL137657, U92992, AK027095, AR029490, AK027173, AF120268, AF084644, AF084645, AL137488, X93328, AL133061, AC026473, AF167995, AK025378, AF113694, AF126247, X61399, AL050277, AK025099, AL117460, AF047716, AR038854, AF076464, A57389, A07588, AF081366, AL133088, S69385, AF058921, AF106657, AF090903, AL137465, AF116631, AK024992, E12579, AL137459, AK000285, AF017790, AF061795, AF151685, U73682, X59414, A03736, AF102578, M19658, AR020905, I48978, AF113677, AF065135, AK000103, AK027169, E01812, AK025092, AL133075, AF130099, AL359623, AF116650, A08910, U35846, AL137550, AL110280, AF115410, AK026593, A08909, AF116691, AB031064, AK026528, AB048910, Y11254, AL080146, AK026522, AF225424, AK026749, AF217986, AR083279, AK027146, S77771, AK025435, AF090900, U95114, AF208850, AR034821, AF130102, AK026857, AL050170, AL359941, A08908, AL049324, AK027081, AL137461, AF141289, AF131821, Z82022, AL442083, AF153205, AF132730, AB050431, E04257, AK024747, AF195092, AF208026, X93495, D83032, AL161802, A12522, A08907, X98066, AX016706, AF113019, AF116688, AF119899, X72387, AL080110, AK026630, AL117585, AL137574, AL096744, AF116573, AB029065, AF061573, E06743, Z35309, AF267991, AL080118, AK027164, AL137557, AF067728, AX042059, U89906, D44497, AL389939, AL137558, AF119843, AL353940, AF162270, AF056191, AL137480, AF124435, AK026408, AF100931, AF130056, AL354776, and AA228088.
HDPUH64	300	100033 9	1 - 691	15 - 705	AA481292, AA279864, and M78277.
HTTHS93	301	100042 4	1 - 1331	15 - 1345	BE886817, BF981304, BG109169, AU135262, BE439496, AW239234, BF670052, AU138465, BF542074, AW239554, AW966687, N90372, N45516, W76608, A W949321, BF431123, AA307160, AA173490, BE185499, AV744410, BF063334, AW294497, BF675907, A1861878, BF980429, T29000, R11099, AU123270, R11071, AU123334, AA478933, BG181115, BE815659, AW363100, AA705027, AW363101, A1718686, A1718938, BE827298, N68560,

HMVCG79	302	100058 2	1 - 1858	15 - 1872	AA091199, AW754043, BE741054, D13645, AL365475, AK024584, and AF245442. BF971208, BE869819, BF676817, BE878141, BF312727, AA258513, N21319, AA258357, AW293672, BF772376, AI075876, AI337429, BF589677, H71643, H63685, H71642, N31254, BF447980, AI081147, AW169975, AI245423, AI079154, AI291037, AW008074, AW270768, AI446205, AW500064, AW277174, AW505125, H04371, AA364456, BE739747, W39161, AI636439, AI192631, BE738966, AW157005, BE383034, AI709174, AI028510, AA92126, AW275719, F23327, AW975049, AA743811, AA657835, AI205181, AA608683, AA728894, H79308, AA968509, AI434311, AV717634, AI625244, AI281881, AW674711, AA515170, AA340747, T06828, T48723, AA362573, AA865262, AL045077, AW368401, BE270471, AI524050, AV719311, AV682003, H67172, AW238278, AV757334, AW845750, AI754955, AA772016, AI804604, AW021583, AU125644, AL043721, AW971192, BF911530, AI654746, AW819611, AA669251, BF940837, AI932902, AA502155, H85059, T83057, AI284463, AI287651, AI811460, R94288, BF946625, BF766147, AW963291, AU144397, AI888365, AV732042, AW504326, H56013, AA774019, AI539776, BG059523, AI864260, AW276827, AA347927, AF244577, AJ387747, AK025880, AK026921, AF244578, AC007510, AL359894, AC007225, AL133412, AC003080, AF190112, Z98258, AC006205, AP001717, AC005661, Z94721, AL031594, AP000049, AP000116, AF190110, AF190113, AC004826, AL138721, AC008651, AF134726, AL020993, Z98051, AC003101, AC005037, AP000193, L78833, AC007676, AF002993, AC004821, AC010422, AL021808, AL121928, AF190111, AC010723, AC007739, Z84470, AL122003, AL121777, AL360227, AC007324, AC004385, AF200465, AC005088, AC007387, AC011479, AC007360, AC004906, AP000517, AC001066, AL022323, AP000311, AC003084, M87889, AC011895, AC005519, AC005229, U91327, AL031229, AL139382, AL138976, AC000036, AL390755, AL021878, Z82245, AL117347, AC004159, L81893, AC005840, AL050318, AC008155, AC012611, AC005015, AC000159, AF195658, AC005592, AL035417, AC011440, Z99495, AC005043, AC009178, AC035149, AL163278, AC004971, AB023049, Z98752, AL121586, AC009075, AC004076, AC027319, AC006948, AL118506, AL031722, AL031602, AL132825, AC008521, AL358214, AL049537, AL354696, AC000134, AC004186, I51997, AF031078, AF030876, AL136092, AC005486, AC008041, AL158830, AP000117, AC008171, AL096814, AC006511, Z78978, AC018720, AC007881, AL031587, AL050302, AC004812, AL136090, AL096791, AL031296, AC007243, AC010605, AC005256, Z74021, AC013451, AC010553, AF217403, AC020663, AC006536, AC005071, AC006305, AF029308, AC069080, AC003012, AF130418, AC004477, AL096819, AL355497, AP001669, AC008813, AL137073, AF317635, AL031848, AL022394, AF108083, AC010169, AC005952, AC005921, AC004526, AL391316, AJ009615, AC003007, AP000552, U82670, AP000359, AC002365, AC008543, AF205195, AC024561, AL160175, AC016027, AC011309, AC005295, AC018766, AL109614, AC005280, AC002082, AL353807, AP001421, AL022315, AP000013, AC008469, AC008958, AC022493, AC007114, AC005763, AB002390, AC007156,
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	303	100066 9	1 - 677	15 - 691	AL121751, AC002472, U90094, AC005257, AC006275, AC002314, AC006167, AF036405, AC013429, AL445192, AL109955, AC004987, AC007381, AL353745, AL136137, AC007664, AC003966, AL136418, AL031256, AC004235, AL020996, AL355485, AC006079, AL163853, AC004895, AC008101, AF023268, AC009123, AL049843, AL033522, AC009079, AL390997, AF252279, AL031768, AC018644, AF094481, AL138807, AC007308, AL391119, AC006473, AC006597, AL355515, AC005052, and AC004981.
HODHK20					R64014, AA112737, AF176555, and AL136527.
HCHMO53	304	100087 5	1 - 784	15 - 798	AV661850, BG169511, BG248919, BF206995, BE787624, BE292793, BE292947, BG167015, AA149518, AW248322, BE788739, BG165453, W68799, BG165990, AW955265, W80356, AW027341, W80631, AW006772, AW006753, AA405876, AI568522, BF436364, AA142865, AI831235, BF032073, AW014568, W68728, AA807542, AA135477, AI077951, AI038765, AI371106, AA634984, AI279024, AA927093, AI131300, BF526325, AI346693, BE351031, AI818983, AI040435, AI862834, AI672933, AA847380, AW090192, AA725414, W49698, AI308968, AI342232, AA405750, AA719097, AI222540, AA135567, AW960497, AA291233, AI038328, W78749, N94738, W17032, AA308326, AI088656, AI032894, AI022131, W49697, AA806295, AI077792, AA878384, AA704008, AI342828, BF939427, AA973620, AA708319, N89773, AI355923, AA306672, AI093528, AA056216, AI271747, R92271, AI215791, BF055447, AA724958, AA894581, AI014948, AW005009, AA040439, AI146870, AI041232, AI220135, AI184832, AI216830, AA056217, AI161403, AW371794, AA906636, AA301648, AA464688, AI682824, AA304676, AA610246, AW009773, AA303948, AA380765, AA772960, AI018514, T34735, AA534787, AW998332, AA613084, AW248085, W78953, AA303607, AW079652, AW189904, AA996272, AA364075, AA046631, AA303545, AA356933, R91942, D25597, H90498, AA700414, AA704184, AA428953, AA303514, AA642176, AA809653, AA932960, AA229336, AA872832, AI963537, AI636251, AA284154, AA781331, AA992512, BF751365, AA040438, AA228480, C20802, BE168202, and AW376045.
HFKKG84	305	100106 6	1 - 978	15 - 992	AI138616, AW300425, AW772406, AW268862, BF055191, AI742921, BF055196, AI654832, AW511109, BF445916, AI824093, BF590313, AI088790, BF513605, AW057904, BF116007, AW572798, BE467017, AI357591, BE299861, AI809223, AI523869, AI424949, AI343405, AI741265, BG032861, AI378380, AI222175, AI932241, AW967410, AW081363, AA236611, BF594076, AI394054, AI354679, AI292206, AW117384, AW340692, AI285920, AI452454, BF111690, BG117257, AI452979, AI857953, AW629001, AI738406, AI934760, AI743316, AI283498, AI918777, AI693913, AI272944, AI339174, BF941902, AI243940, BF446024, BF732754, AA687997, AI097628, BF515727, AA769454, BF446070, AI916272, AI097611, AW627991, BF445914, AI299722, AI085289, AI206071, AA237028, BE275495, BF001500, N30391, AI419554, AA470723, AI472547, AA765721, AA765517, AA884353, AW082296,



	306	100133	1 - 288	15 - 302	AA833873, AI830794, AA805599, AA848012, AI701708, AI190215, AA631199, BE675217, AA811316, AA838411, BF877011, BF684599, BE044203, AI467933, AA806059, AI521761, W99354, AI423863, AW272466, N88425, W99323, AI939327, AA749159, BF224105, AW079604, BG119079, AA612797, AA456854, AW406410, AA773216, AW592726, AI005519, AW405439, AW804792, AA971365, AW361665, BF513794, AI735737, AW407072, R63432, AI916278, BF734194, BE774204, R65877, AA885203, AW804713, AI333533, AA764740, AF047002, AF086513, U89876, and AC005102.
HOFMT20	307	100169 3	1 - 1309	15 - 1323	BE563085, BF971689, BF973050, BE409548, AV706183, BF685884, BE746940, BF684962, AI739106, BG177492, AI831843, AV729983, BE889848, BE906979, BE902057, BE887637, AV702427, BF973465, BF683167, BF684203, AW439384, AV706746, AV751573, AV730781, AV730711, AV730171, BE888797, AV731759, AV723449, AV732002, AI421858, AV731708, AV726505, AV731977, AW001496, AV728270, AV730547, AV731043, AV731694, BF683357, AV752043, AV732149, AV731744, BE614064, BE614545, AV725927, AV710495, AV751921, AV706724, AV752443, AV730288, AV702869, BE883121, AV731313, AV707088, AV732653, BF001456, AV710534, BF684760, AV656240, AV711496, AV710938, AV758481, AV732200, AI884472, AV731275, AV727103, AV701611, AV659189, AV752447, AV723452, AV757088, AA654332, AV730165, AV702798, AV707783, AV730778, AV704592, AV730816, BE512957, AV758133, AV737377, BF127820, AV732353, AV710906, BE881971, AV702409, AV753374, AV726674, AV756895, AV755473, AV728872, AV711240, AV757887, AV733303, AV760693, AV730859, AV710417, AV761002, AV731915, AA587899, AV755874, AV662191, AV710375, AV732155, AV710562, AV752993, AA203213, AV751555, AV732089, AV704974, AV711413, AV713945, AV727932, AV652156, AV658362, AV763440, AV761270, AV728844, AV710825, AV756053, AV737379, BG030466, AV740829, AV729129, AV705280, AV737380, AV745415, AV706357, AV739275, AV726738, AV702637, AV711571, AV725369, AV705263, AV732746, AV702354, AV738275, AV745906, AV711344, AV746276, BF036894, AV732255, AV711567, AV729568, AV711274, AV703012, AV707171, AV752684, AV723195, AV707686, AV705020, AV763171, AI149441, AV704611, AV707117, AV710622, AV706035, AV731653, AV687176, AV701237, AV757823, AV713377, AV758003, AW873154, AV721645, AV709407, AA587336, AV701320, AV709897, AV728777, AV757553, AV710909, AV759183, AV710394, AV710086, AV704916, AV737413, AV704924, AV710941, AA918519, AV730449, AV736429, AV726067, AV740404, AV714368, AV724987, AV702954, AV709969, AV710935, AV726624, AV697638, AV731884, AV726520, AV709935, AV718341, AV756386, AV712324, AW080368, AV647654, AV710090, AV706104, AV729263, AV728715, AA812298,

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	308	100190	1 - 731	15 - 745	AA165422, AA165585, AA190590, AA191138, AA583402, AA579978, AA826713, AA857618, AA872024, AA928327, AA406019, AA406020, AI040262, AI086993, AI279937, AI284104, AI287314, AI342093, AI220124, AI400897, AI401069, AI423557, AI423923, AI655140, AI219024, AI219325, AI221060, AI590778, AI336331, AI537436, AI695719, AI859937, AI870584, AI952448, AW117898, AW207232, and AW264135.
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HVVCB28	309	100195 4	1 - 988	15 - 1002	AV705264, AV706072, AV683963, AV706342, AV707762, AV694187, AW951755, AV699515, AV710786, AW245686, AV763373, BF697667, BF972835, BF975017, BE439856, AW157264, BF310083, BF316882, AW957501, BE384044, BF207677, BF973968, BF182807, AU132724, AV744429, BF683700, AW156898, BF679695, AW327446, BF304262, BF212277, AW157394, AW157568, BE386024, AW162103, BF030699, AW157848, BE279628, AU121488, BF592716, BF129943, AA714515, AU128379, AU132202, BE389756, AU129051, BE565716, BF203437, BF681016, BE390210, AW161723, BE512871, AU151235, BF669073, BE278479, AA569177, AI929758, BE382394, BF211728, AW157643, BE614992, AV762310, BE273274, BE738049, BF130086, AV742690, AA306206, BF310576, AI815789, BE798919, BF029321, BE738861, AA492221, AI816372, AA721785, BE264675, BE280939, BF210883, BF103929, AW328447, BF662957, AA613920, AW163274, BE263442, BF207125, BE732880, AA155809, AA838569, BE205828, BE745024, AA314964, AW157129, AA653797, AW157582, AW328047, AW157595, AI879648, AA593711, BF305419, BE737590, AW965976, AA308570, AW163024, AA315092, AW163598, AI879418, BE732475, BF308563, AW157358, BE260151, BE730910, BF218856, AI879034, BE972741, BE900481, AA639271, BF207691, BE874101, BE738854, AA316184, BE262070, AI815434, AA316597, AV759146, BF245330, BE898237, BG231178, BE251422, AW162463, BE615369, BE388738, BF030058, BF309764, AA643089, AI476317, AA864635, BF592225, AA641496, D56303, BE898521, BF667594, BE311679, BF972373, BE273794, BE273525, BE312295, BF688721, BE265187, AA534138, BE902139, BF128942, BE408376, AV735540, BF103641, AW161557, AW161834, AA580332, AW161148, AW161113, AW163562, AW161488, AW160452, AW163443, BF692470, AA631827, AW160484, AW160608, AW327362, BF679608, AA657409, BE293406, BE737921, BE567034, AA566005, AW162082, AV742714, BE293084, BE615779, AA316617, AW161089, BF025936, BE738577, BE513096, AW327447, BE563349, D53376, AW160793, BF029840, AW328448, D52332, AA306488, AW161199, BF237854, BE567138, AW163612, AW161394, AA314961, BE795148, AA045577, AW327644, BE735803, AA575907, BE293808, AW270644, AW163455, BF207912, AA809242, AW161187, AV706461, BF131453, AA582692, BE739396, BE738211, AV740235, BE738380, BF030477, AA314795, AI609865, BF305163, BE727394, AI815415, AI878968, BF541026, AV737405, AA507549, AV739015, BF312013, AA308374, AA736529, AA729046,

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HOVDG59	312	100232 8	1 - 1148	15 - 1162	BE392523, BF341045, BF526954, BF345041, AA293895, BE393803, Z43548, F11332, F11336, AA324381, R15203, BF338150, AI291292, AW139401, AW139402, BE747964, R44374, AI656348, N62634, AI458990, AA973701, AL519859, Z39616, T58591, F08996, AI458684, AI457481, AA991427, BF791631, BF791764, AL519858, F08992, AU152841, BF341518, R56283, BF447914, N78405, AA644231, AA738248, AA928861, T58522, BF939563, BF732685, BF934189, AW162194, AI348901, AI560545, AI345347, AI589428, AI590043, BE538125, BF345306, AL036265, AL138386, AI554444, BF970853, AI537677, AL040241, AV701490, AW022494, AW020288, AL046466, BE011880, AL039011, AI540674, BE904902, AI953765, BF871314, AL514026, AW075382, BF835240, AI925404, AW827289, AL039086, AV682837, AI699823, AW020381, AI401697, BE904979, AA088789, AI537643, BE875959, AI628325, AI284060, BE047833, AV709580, AI491710, AA658033, AW834302, AI249389, AI936003, AV709935, BG122101, AA806719, BF572734, AL047344, AV682610, AW022102, AW079572, AW161579, AI242246, AI473451, AI922110, AW935969, AV745008, AI698391, AI037582, BF911517, AL037602, AI561356, BE964614, BE965432, BG180032,

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HT/JAD78	313	100245 9	1 - 1222	15 - 1236	<p>BF976027, BF344410, AI935276, AI922295, AI453286, AI061447, AW084781, AI922740, AA633914, BF976158, BF975009, AI890517, AI685129, AA604548, AI564488, AA633898, AA554807, AA603094, AI676248, BF342159, BF976021, AI872299, AA482084, AA594007, BF663737, AA583477, BF128583, AI633036, BF448492, AI624124, BE138766, AW084033, AI972107, AI573054, AA554503, AI861992, AI635092, AA554603, AA603112, AI963159, AI885552, AW189893, AW170437, AI831674, AI913303, AW606610, AI432677, AI627447, AI660947, AI660631, AV684756, AJ911860, AI355049, AW080943, AW606612, AI569431, AI554239, BF663657, AA554601, AI570775, AA604466, AA603208, AI824097, AI685224, AI814789, AI499106, AI709348, AI683645, AI921323, BF448566, AA618014, AI983813, AI696861, AI813565, AW088620, AI888446, AI861988, AI955000, BF913238, AI890071, AI982663, AI598119, AI887339, AI880599, AI635332, AI857980, AI924221, BE042860, AV690487, BF448526, AA411582, AA663959, AA643405, AW514722, AW778755, AI631308, AI653450, BE046117, AW393947, AW378521, AI871896, AW469981, AW629703, AW338410, AI872320, AW270036, AI922702, AW951505, AW172900, AI912327, AI673464, AI634576, AA548003, AA522521, BF882331, AI697305, AW339071, AI561092, AI564163, BF741504, AW393397, AI701064, AW662211, AW629802, AW819654, AW819651, AW629750, AI922443, AA554766, AW393944, AI935829, AI690539, AA663981, AI890080, AW368623, AW606617, AA528081, AW381195, AA618081, AW610019, BF883562, AI814167, AW514864, AI890736, AA669378, AI445509, AI569201, AA715192, AW610379, BF768600, AI913479, BF768451, AI861993, AI983877, AW364248, AW418532, BF915146, AI669056, AW338400, AI660695, AW384215, AW629931, BF883542, AA825870, AW610064, AA633179, BE714992, AL048475, AI829836, BF828709, BF976052, AW393995, AA487082, AW393913, AI660861, AI982860, AA487439, AW392248, AI499240, AA485648, AW582663, BF341158, AI888139, AI634623, AA715707, BE706882, AW440616, AW394006, AA618094, AW073757, AI872290, BF826058, BF879554, AA911629, AV686256, AA548191, AW383978, AW393994, AI811728, AA515655, AW972295, AI983040, BF882689, BF882683,</p>

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HCDCF69	314	100246 8	1 - 1277	15 - 1291	<p>AL524278, AL519903, AL526355, AL527614, BF340905, AA713828, AI458100, AW262148, AI568466, BG164427, BF034879, AW117724, BE620311, AA904657, AW131429, AI609416, AI033969, AW129436, BF689910, AA203178, AI805223, AW769228, BF130147, BF690136, AI805037, BF195173, AA412692, AA724441, AU152123, AL525376, BE885606, BF570214, AI249142, BE964545, AA582240, AU150923, AI025016, AA552508, AI122839, AI077898, AU147281, AA412693, AA827564, AI280970, AA151594, AA582141, BF568807, AI081702, AI906090, AW263533, AW338886, AI445429, BF769848, AA847301, AU159916, AA861986, AA534564, BF694201, AW169690, AA837848, AI262386, AA995557, AW055102, AI538339, AW068673, AI347587, AI021897, AA995739, AI344598, AL134886, AV711206, BG009909, AI810319, AA700365, AW589276, AA704292, AW079730, AI167694, AA293349, AA977304,</p>

BE250436, AI262385, AI192065, AI040274, BF573597, W93214, W93215, AI687634, N36559, AA548158, AI301315, AI829027, BE857395, AI288840, N35598, AI313403, W68378, AA552498, AA507574, BE906755, AA962477, AA723114, AA399449, W19181, AW166339, AV748305, N21448, AW075489, BF035753, AI216217, BF690577, AI077427, AI633969, BF690422, AA476241, AA962215, AA595418, AA613449, AI809008, C01509, AA991972, R61344, AI470296, AA476240, R60330, AI560381, AA960950, AI475289, AV654461, AI050834, AA362713, BG056841, W94131, AW079502, AI092050, AA627597, T29078, R23845, AI364600, W68337, AA419309, BF725379, R48310, AA934635, AA402861, F09209, BF995825, AA303242, AI784429, F02198, H27765, AW474231, AI348878, F29487, AA303664, BE019943, AA829717, W25312, AW105090, AA772020, AI363750, BG054535, T15626, BF475643, BF591433, AI659408, AA613063, AI669714, AI658630, AA610133, AA340999, AA865740, AA331148, AI656307, AI360695, AA948311, AI916822, BF125067, AI653065, AI653083, AW137529, AA903123, AI205509, AW370562, AW370559, BE671651, AW361791, BE002099, BF341902, BE275766, AW361940, AA149474, AI654855, BE904953, AW392531, AA341015, BG106097, AA550943, AW370576, AF114142, AV699669, R66242, BF768969, AV718633, BE832865, BF769677, AV719049, AV718938, D20921, BE877883, AA613064, BF692557, AW949645, AW975618, AW966389, AI910055, AA978217, AW964468, AA405065, D80045, AW962245, W94036, AV719511, AV724520, AV719876, AW965158, AW949642, AV727782, AW378532, AW966053, D59502, AW949643, AW975621, AW966013, AV718692, AV718800, C14429, C14331, AV718489, AW966534, D80195, AL096840, M98252, L06419, AF054274, AC004876, D34614, AX047063, A62300, A62298, AX047064, AX047062, A84916, AR070327, Y17188, AR018138, D88547, AX033851, AX020191, A82595, AX020190, AX035434, AX027925, AI132110, AJ302649, AX021518, X67155, A67220, D89785, A78862, D26022, A25909, AR016808, AR060138, AR074545, X82626, AR092424, AR087649, AR025207, AF058696, AC002347, Y17187, AR008278, AC006038, AB028859, AJ251973, AX028130, AR077702, AC005488, AL133418, AC002470, AL049758, AC018731, AJ294956, AC004853, AL357560, AC006023, AL035415, AL139184, AC007308, AC006057, AK026655, AL031668, AC002477, X68127, AL031293, AL118520, AC005821, AC022150, AC023105, AC004539, AP001330, AP000354, AP001728, AL136295, AC010271, AL133370, AC019227, AC006483, AP001712, AC006115, AL133377, AL024507, AC005390, AF260572, AC008958, AC006330, AL121898, AC004973, AL121652, AC008745, AC005088, AL049829, AC005837, L78810, AC010422, AC006120, AC006312, AC005522, AL442124, AC010553, AL163249, AC004929, AC005920, AC020934, AC007868, AC007367, AC004796, AC022201, AL021808, AP001748, AP001698, AP001732, AC005486, AF258545, AC007055, AC007298, A94995, AF030453, AC006536, AC005629, AC002073, AL031777, AL035407, AC008379, AC004797, Z68870, AF068862, AC004643, AL022324, AL121751, Z86061, AL050307, AC005081, AC026122, and AL021154.

HPTTW90	315	100247 9	1 - 1273	15 - 1287	AW170624, AW516181, BG117151, AU149061, AU155228, AW502495, BG122631, BE254060, AI673723, AI687960, BF814084, BG024360, HI7924, AW196108, BE746829, R43739, BF824787, AA458536, AA454612, AW408007, AA847697, AA602768, AW514450, AI952211, AW051649, AL039873, AI168473, BF683651, AW500158, AB016794, L20431, I73380, AR066417, AC005516, Z69837, L27416, I23502, A39975, A39976, L28827, I73389, AB016793, AR066384, U24233, L23313, L23312, U18650, and L27415.
HSUBG36	316	100249 2	1 - 961	15 - 975	AI185096, BF103789, AU117205, AU137241, AA733050, BE783499, BE618181, AV757786, AV743769, BF680487, BG027886, AI333721, BF541964, AI148205, AI811087, BE378837, AA987818, AA742752, BF685222, AW952792, BE302100, AA659440, AA732364, AI936096, AW327396, AL048083, AI279902, AI263891, AW440528, AV753064, AI826356, AU126592, AA432012, AU123006, AL048084, BE564318, AI470021, AV704356, AA316536, W45183, BE018474, AA625316, AI185537, AI076183, W80493, BF211327, AA316468, W84630, AW516105, BG030086, AA846523, AI422123, W78758, AW518265, AW084860, BE873984, AA313273, BF837020, AU126555, W91935, AA678021, BF211971, AI436313, AA573309, BE874605, AA740180, AW276292, AA652253, BF836170, BF240312, AA746960, F20803, AW005309, AV755665, AA505968, AA262737, AA643844, AA825665, AA825656, BF130913, BF209571, AA484987, AA657855, AA640115, BF218165, AI630419, AA747022, AW957951, AI630230, AI498286, W87610, AA483708, W84681, AW089021, AI085413, AA715002, W87901, AW817501, W94898, F33710, F36966, AA706906, AA384245, T28438, AW999579, AI349439, AA075194, AA659105, AA782910, AA484859, AA812174, AA075195, AA367098, R58158, AA894871, BG153113, N83465, AI339378, AI340881, AA344740, BF758034, D19829, AI613313, BF906690, AA865159, AA804898, W42658, AI144278, BF837009, BE963193, AV732657, AW162196, M21258, X12466, M37716, M15918, AC011533, M65125, M65126, M65235, M36001, X12465, X17036, AL033378, AC006599, M15919, X65704, M21253, X54048, S60260, D28435, and C14070.
HODFU72	317	100252 7	1 - 1287	15 - 1301	BF676003, BE076759, BF959556, AI556964, BF362236, BE079009, BE244665, AV701402, BE929112, R18432, R14837, AB037841, AF257305, and AL353807.
HCNSF57	318	100254 5	1 - 1013	15 - 1027	BF974713, AI141674, BF975632, BF338816, BF974359, AW084029, AW190207, BE560989, BF975863, AA402796, AV649126, BF128621, AI634404, BF976229, BE559541, BE562327, BE513271, BE559866, BE560810, BF664119, BE562370, AV651267, BF343082, BE270781, AV691558, BE562037, AI523289, BF128616, BE561313, BE559743, AI820745, BF343658, BF974797, BE561803, AV708819, BF664036, AI435293, BF663927, AA808888, AI963421, AI582211, BE560212, AI620843, AV575358, BE561081, BF976648, BF338856, AV697043, BE561605, AI799354, BE706916, AV688454, BE561129, BE562272, BE561382, AI589372, AV692175, AI573110, AI122978, BE140135, AA896973, BE156144, BE396449, AV693955, AW276248, BE562336, AA994436, BE559999, BE561378, AA558653, BE561302, AI066510, AI478690, AI141708, AI584008, BE561413, AI625973, BE271225, AI687371, BF128831,

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HODJU13	319	100254 6	1 - 421	15 - 435	D80043, AW973474, AW959597, D58283, AW975618, AW966029, AW959570, D80253, AW973307, AV699447, AV719557, AV718707, AV718692, D59610, AW959136, AV720211, AW978634, AW966059, AW966053, D80366, AV719822, AW966531, D80188, AW978661, D81030, AV699550, C14389, AW959202, AV718938, AV718633, AW959628, AW959799, AW960465, D59859, AW975613, AW958993, D80166, AW962082, AW960553, AW966075, AW966065, AV718489, AW973482, D57483, AV722801, D51423, D59619, AW956397, D80210, D51799, D80240, AW973334, AV719324, AW966534, AW975605, AW973488, AV718931, AV720878, AV720731, AV723927, AW949656, AW949642, AW966022, D59467, D80212, D80391, AW966013, AW978648, D59787, D80022, AW966041, C14331, AW964488, D80195, D80219, AW966032, AW966054, AW975621, D59927, AW960473, AW965177, AW949629, AW965163, D80164, D59275, AW973541, AW965175, AV720791, D59889, AV720203, AW964756, AW966050, AV719188, D80227, AW958992, AW966062, AV718440, AV719783, AV720028, D59502, AV719468, AV718800, AW965185, AW965197, AW965196, AW973485, AW965184, AV718844, AV720464, AV718770, D80196, AV724520, AW959062, AW964477, AW956434, AW949641, AW949654, AV699927, AV700889, D50979, AA305409, C15076, D80024, AV721386, D80241, AW966023, AW960454, AW973330, AW959582, AW949653, AW949645, AW949631, AW949643, AW949618, AW949657, AW949655,

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HODIL25	320	100255 1	1 - 1814	15 - 1828	<p>AU120042, BE780972, AV715756, AV711451, BF347691, AI357871, AI818374, BG104561, AW613119, AL119040, AI610884, AW129956, BE840539, AA861081, AW080968, AI949210, AA088340, AA911979, AI890636, AI082565, AI253533, AU151586, AU150967, BE840639, AA594005, BE835307, BE349344, AL047924, BE835388, AI217066, AI401436, AW170795, BE439805, AI808939, BE567432, BG236052, AA232142, AI078839, AW193031, BE840631, AV754839, BG024161, BE769183, BE769133, AA421829, AA136375, AI080190, AA136322, AW958948, AA825391, AA147532, AI492527, AI493374, AI242642, AW029010, D59969, AW264735, BF096116, BF764397, AL041312, BF095708, AW627822, D79956, W95261, AI270468, R74381, AA355105, AW939263, BE925867, AA136289, AA136235, AA659078,</p>

					AA411994, AA321516, D61038, AL046548, AA484122, W95162, AA328058, AA402457, BE765922, AW373007, AI868183, AW452301, D60905, BE165512, BE165519, AI074733, AV724079, BE165394, AW581790, D60994, D81283, C15661, BF767644, AW674727, BE180860, AA193368, BE933971, AI983984, AW821218, BF742645, BE567242, BE171552, BE670051, AW902315, AA384773, BE939999, AA088339, AA598824, BE767834, AF273049, D83032, D83033, AR038860, and AF090903.
HUVHS56	321	100256 3	1 - 1064	15 - 1078	AA203629, AL523163, AL521771, AL514552, AL536987, AL529628, AL530356, AL523994, AL526673, BE730806, AW161326, AV717844, BF210986, BE869187, BE792999, AA486503, BE618082, BE796377, AV647216, R18207, Z46093, W68658, T36060, W86087, AI766913, BG015222, AL529627, AL523162, AL121978, AF097441, and AF161438.
HPMJQ18	322	100256 5	1 - 810	15 - 824	BF986504, AL049139, AW504150, AL521374, BE247529, U48730, U47686, I40052, A84439, A84463, L41142, U43185, AJ237934, AJ237937, Z72482, AF135123, AJ237933, AF135122, Z48539, U21110, U36502, U21103, X91988, Z48538, U24175, X97541, X78428, I23453, AF074248, AJ005638, and AF144565.
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HSCLR05	327	100280 7	1 - 980	15 - 994	AI700438, AI796647, AI824691, AI829972, AI865678, AI915175, AI928522, AI969992, AW026267, AW131547, AW198186, AW261952, and AW276716.
HVVAO74	328	100281 1	1 - 1150	15 - 1164	AW963399, AI609934, D80029, AW102867, BE672203, AI745441, AI472112, AI041677, AW439716, BF092701, AA838613, AA962296, AA828728, R98102, AA834893, H54015, N50938, AA043772, R83194, AI221967, H68772, AA372063, AW900696, R98103, W93231, AI183613, AA371856, AA861294, Z21092, AA431494, AA043771, H54171, BE878252, BE765324, BF683734, BE766646, AA424498, BF092669, and AK000435. AL517746, BE314392, BF685767, AL517745, BF663864, AL527798, BE901139, AL526086, BE732253, BE730581, BE273465, BG033928, BE274994, BE793389, BE735117, BE736161, BE274909, BF025763, BE797068, BF793676, BE795151, BE276067, BE799798, BF568859, BF797444, BG031038, BE901143, BG027437, BE898049, BE733741, BE731033, BE797663, BE730448, BE904242, BG180030, BF058792, BG036034, BF025707, BE410862, BE618538, BE547475, BE728447, BF568805, BE281217, BE270552, BE791501, BF032884, BF983027, BF679076, BE389168, BE880439, BE409460, BF528780, BE795806, BE275489, BF685111, BE275834, BE880404, BF662872, BF305445, BF027645, BF306589, BG032276, BG025207, BF686113, AW960462, BF568562, BE262720, BE883448, BE785807, BG249555, BF791670, BF686641, BG030409, BE276910, BE259215, BE382696, BF037141, BE794633, BE276938, BE266608, BE389026, BG034257, BE732487, BE276779, BE790192, BE268263, BE909056, BE729122, BE728799, BF128006, BE872841, BG031367, BE900561, BE268310, BE410738, BF854010, BE388364, BF568658, BE018670, BE514363, BF237574, BE886108, BE387313, BF308798, BE267700, BE389685, BE385517, BE389304, BE296678, BG116916, BE618919, BE909775, BE267922, BG231768, BF573426, AA075347, AW954753, AW249908, BE279555, AW247787, BE387389, BE311424, AW674345, AI924518, BE881839, BF854355, BF854139, AA099137, AU150900, BF858145, AW085546, BF858158, AA810641, AI094712, AI983831, BE208512, BE537365, AW848677, BE543319, BG111959, AA121335, AA776475, AW162889, AA768161, AI985750, AA075600, BF127877, BF858133, AW104662, AI587554, AA832303, AW974204, AA827218, AW072974, AW732057, AA782428, AI818506, AI923790, AW073752, AW262769, BF925345, AI094923, AI683905, AW512935, AI289229, AW305043, BE042722, AI276197, AA806259, AW512367, AI493600, AA569388, AI346741, AW475015, AA946821, BF515131, BE798771, AI432816, AI263880, AW302618, BF063047, AI744754, BE939146, AW439553, AA629031, AA009635, AW007234, BE350557, AW674453, BE336843, AI538381, AU149699, AI274098, AW966999, AI440437, AI799716, AI127260, AI799164, BF303754, AA554181, AA554976, AA253120, AA761082, AW089894, AA554583, AI344421, BF962198, AI749787, AW193957, AA707869, AA903212, AI311788, BE538355, AW246180, AA826402, AA631886, AA280597, AA206821, AI300392, AW163603, AA995293, AI245900, AW769752, AI749149, AA847378, AA253380, AA281999, AW575857, AI357033, AA653882, AA679720, AI936832, AA253406, AA992132, AI245858,

					<p>BF217536, AA737504, AA603759, BF115553, AI619611, AA626225, AI197811, AA121655, AI290548, AA845852, AI754469, BE621648, AI916320, BG150679, M20472, X04851, M20471, AL158830, X04849, U91848, M15882, M19260, M19261, X81636, S83456, AF061943, M27260, AF130357, E16086, E00984, I04527, AL117432, AK025099, AF126247, AF130110, AL133558, AL389957, AF262032, AR081734, X72889, AX017991, AL080074, E12747, AF082526, AK025378, AF126372, X59812, AR015970, AK025414, AF119894, AF114170, AL162001, AL050172, AF103804, AR050959, AF254119, AJ005870, AK027260, AF235993, AF118094, AF161413, M84133, AF119878, AF222801, AL080139, AK025356, X69026, AC006112, S71381, AL110196, AK026885, AF155827, X93328, X06146, AB044560, AF116698, AL050143, AK027114, AR068753, AR083283, AL137465, AL133565, AF267991, S66283, Z82022, AF110640, AJ238617, AC006313, AK000718, AF130104, X63410, AL122104, AF143723, E12580, AL133557, A21625, E02221, AK026857, AL135933, A08907, A21103, AL358532, AF132205, AK025339, AL133081, AF167995, S56212, S63521, Y16645, AK026624, I33391, AF093542, AF247674, AF043493, AL133113, AF002672, AF116631, AR022283, T40395, T41243, T64540, T90321, T90411, R00565, R00670, R25339, R26533, R33582, R33686, H18970, H19067, H27745, H27798, H45132, H45435, R83238, R84577, H50536, H67162, H69463, H69869, H81467, H90414, H90467, N24604, N26124, N33744, N53776, N73137, N92823, N98429, W25003, AA009909, AA062687, AA070954, AA070955, AA099193, AA100434, AA113872, AA114226, AA121498, AA129568, AA129567, AA136241, AA148896, AA148897, AA193236, AA232687, AA234536, AA236641, AA463722, AA418595, AA418657, AA492418, AA533820, AA573459, AA574409, AA764840, AA769718, AA811497, AA862908, AA911762, AA934849, AA953169, AI050856, AI080458, C02263, AA219496, AA219497, AA291388, AA291576, AA411500, AA410973, AA421641, AA470065, AA478445, AA634362, AA668474, AA776897, AA853774, AA788900, AA860579, T65963, AA700755, AI270054, AI273071, AI281938, AI308051, AI342033, AI361173, AI361176, AI362443, AI424716, AI499991, AI422672, AI569849, AI423030, AI131510, AI143024, AI651756, AI206072, AI250769, AI590911, AI332622, AI521752, AI682704, AI688438, AI799841, AI866009, AI874132, AI915718, AI917163, AI971079, AW006773, AI989886, AW088989, AW130336, AW149242, AW196263, AW183129, AW272134, and AW338687.</p>
HVVB181	329	100312 6	1 - 1033	15 - 1047	<p>BE562883, BE733460, BE731242, BE616471, BF184098, BE614999, BF124993, AW161042, BE732247, AI720002, BE735398, AW963989, AW007333, BF529351, BE614720, BE909977, BG168999, AW001354, BF105923, BG034355, AW163527, BF439955, BF982101, BF698001, BE885275, AW474669, AV763438, AW945186, AW055293, AI608832, AA577204, AW130759, BE885816, BE350922, AA280097, AW517232, AA404292, BE395053, BE273672, AW007233, AA569806, AW769131, BE281579, AI827062, AI127609, AA176848, BE378887, BF341546, AA780006, AI335990, AI141330, AI149137, AA847806, AI031744,</p>



					AI143796, AI160701, AA778845, AA843266, AA099004, AF062723, AA614470, BE076042, AI445696, AI565519, AA468770, AA782115, AI497582, AA552408, AI494523, AA401294, AI375783, AA594315, AA761018, AI082026, AA587002, AI224958, AI858962, AI189578, BF683682, AA699708, BF898334, BF209374, AA568121, AA495906, AA099073, AA159987, BE562957, AA877377, AW945187, AA922449, AA315409, W37385, AA410418, BF439308, AA632840, W81269, W32492, BE075625, AI338833, N55541, AI983955, N36577, W81233, AA495905, H63552, AA714174, R99250, AA844586, AI159852, AI096873, AW579429, AA232999, AA887055, AI262372, N51896, T54995, AI929281, AI368588, BF351353, F36789, N78711, D30894, N62719, AA025552, AA155970, AA773222, AA233045, W37491, H60049, AI143368, AI673563, AA857035, F35505, H63597, AI738830, C18334, AI247757, H67322, AI868458, AW405726, AA406300, AI378872, F32766, T57268, AA232955, R99052, AA470421, H68531, AA155680, BG028421, AA128876, R08423, BF351216, AA457131, AA159986, AI557608, W07730, BF331418, N76927, AA464479, AI867132, AW794300, F22032, BE075384, AW607025, R29484, AI869219, AI381765, AA426395, AI572269, AA688221, BG170967, BG112178, T55161, BE828599, AA025653, AA232947, AA642504, T56637, AW372146, AA340140, T29667, N78443, AW749083, AW885264, AI929356, AW885263, H57775, AA716675, AI022863, R29328, AA411375, AW510785, N73182, BE940670, H57774, W02158, H81432, AI200370, AW969655, AW979030, AI309803, AW979046, D26308, D32143, AC010271, L35045, and AA457132.
HVVVK18	330	100315 5	1 - 1070	15 - 1084	BF305151, BE735037, BE747506, AU142350, AW007738, BF969509, BF237675, BE536135, BE887112, AV762678, AI189162, BF304178, BF685859, BE904945, BE910235, AI831230, BF796121, AU129499, BG028749, AU129917, BE253409, BE383400, BE786396, BF038236, AU126872, BF211966, AW151710, BF794652, AI025755, BE791012, BF308698, BF573136, AI828932, BE791105, AW131497, BE350874, AI680282, BF345258, BF215074, AI581180, AW778828, BE567149, BF103688, AA706900, AA583905, AI185849, BF184091, AU123046, BG113431, BF382100, AW664218, AA737763, AI338605, AI672800, H97858, AA479594, AA482100, BF242491, BF107188, BF215495, AI262005, BE865968, AU127161, AA443583, AA480133, AA393815, AV662236, AI002710, AA722765, BE536238, AI831666, AA477032, AU151980, AA878562, AI142353, AI689584, AW276192, AI567125, AI015877, AA862947, AI580858, AW993389, AA284572, AA862518, N35547, BF928258, AA492405, AA284877, AA152127, AA131821, AA476920, AI833193, N28814, AA243320, AI243915, AI304511, AA293499, AI342052, AA132004, AA293112, AI140958, AA443648, T56244, AI281588, AA453009, AI863847, N53065, AI186249, AI312511, AA761708, AA865831, AI272898, AA131997, N44572, AI206382, AI220411, AA490063, N23342, AA962083, AA150044, BG059293, AI591408, AA534684, AA630630, AI935160, N99371, BF573103, AA477433, AA669307, AA393918, N26856, AA865189, BF941869, BF673621, AA099578, AU149842, AA774040, AV721930, AA912358, W39527, BE247542, AV741784, AI766710, AV755538,

	331	100322	1 - 420	15 - 434	<p>AI025557, H96778, AA150121, AI028641, AI832740, BF306716, W15414, BG257198, AA398206, AU149647, BF765307, AA878090, AA916218, AA826985, BF131025, H79091, AW026984, AV735966, N71988, AA833515, AI127245, AV760892, AU119782, AW379902, BG006074, AA772963, AA669323, AA399096, AI147346, BE245986, AW627799, R06791, R34078, AA737015, BF841463, BF326591, AV715148, AA470620, AA263115, AI902675, AW439196, H96331, AA664933, AA730617, AA199928, BG113662, H26509, R34077, BE908471, T56387, AA375860, AW262878, AI301668, H47214, AA489908, BE696171, T98663, H47117, AA150029, BF341798, AA582630, AA365888, AW951549, AA354108, AA304828, BF355610, T98719, AI351714, T46947, AA353826, AA649575, AI186428, AA385345, AA558021, BF819254, AA243319, BF934697, AI066528, T46948, BE971394, BE535580, AW197923, AI673807, AA502983, R24695, BF667213, BF696052, AU076967, H37829, AW362129, BF664847, BF772902, AW903447, BE938645, AW903384, AA199858, AW882107, BE835971, AA091551, AA131831, AI022011, H37883, D26599, D21799, AF060090, AL354864, and AL157951.</p>
HOFMS19	331	100322 2	1 - 420	15 - 434	<p>AW629632, BE906747, AW238814, BF244456, BG035566, BE896159, AL523247, AL526987, AW161580, BF034231, BG110736, AI525505, AA594515, BE350096, N74741, H91423, N35197, Z72000, D83745, D64110, AP000432, AF087037, and AP001670.</p>
HSCLM55	332	100322 4	1 - 1080	15 - 1094	<p>BF036860, BE874607, BE613153, BF131283, AW024416, BE218012, AW662566, BG033319, BG178742, BE677139, BF038607, AW992000, BE697884, AI421202, AI434791, BE857176, BE58592, AW960360, AI309982, BF752463, BG122649, AW572665, BE697883, AI769534, BF432791, AW473625, AI393963, AI378930, AI492647, AI769524, AA953114, AI380180, AI420285, BE884521, BE697886, AI805717, BE697879, AI077552, N26060, AI678958, BE205797, AW627557, N40424, BE790024, BF110838, AI190662, AI613423, AA976041, AA581509, AA776498, AI268866, AI291641, AI289100, AI208759, BG113949, AW466940, AA278467, BG121150, AA665834, AI341899, BF940423, AA315414, BF752452, BF823045, BE765726, AI671697, AI961637, AI613432, AA989174, BE813958, BE765666, AA235080, BF438697, BG171186, AV739357, AW802718, AI127470, AA603717, R80986, AI085843, AA235209, AA993834, N80556, AI160297, AA421270, AW863774, AA187209, AI205566, W39334, AW277106, H59979, AA045407, BF752395, T75129, H09069, W52459, AA503424, AW971006, F10405, BE005409, AA421317, W52458, AA723427, AW189559, AA045301, H09070, AA256210, AA503121, BE826023, AA921301, AI819232, BE831073, BE831048, AW956475, AA303086, H23150, H81373, BE831070, H23151, AW593442, BG166357, W15379, AI003129, H57853, H80453, AA587453, F12797, BE831071, AA811971, BE091742, AA379841, R80786, AA737085, AW029021, BF752382, R38552, BF354290, BE150019, T48991, BE831072, BF195285, AA503131, AA256353, F17470, AI424220, BF965507, BE929386, AI431521, AI038986, T48990, BE932245, AI381715, AI424511, AI569722, AA835425, AV757066, AW997044, BE143663, AW337583, BE065144, AA558437,</p>

						AW269615, D20475, AW016289, AI795986, AW996815, AW603108, BF3334971, BF3334967, BE784335, BE897879, AV721229, AW881505, BE699148, W07679, AL050215, AF151801, AC004983, D89937, and AX026138.
HETJU23	333	100370 6	1 - 2214	15 - 2228		AU125582, BF338909, AV721101, AW960032, AU149216, AI479301, AA551070, AI765789, AI888129, BF689666, AW300579, AI561067, AI952933, AA699496, BF851750, AW631269, BF223599, AA977132, AW003323, AA227895, BF056547, BF056388, BF851745, AW628961, BF851053, AI499649, AA227595, AA557146, AA005279, BF999437, AI124737, W88953, BE139597, AI866470, BF690562, AW392978, BF849227, BF999431, AA524236, AA992176, AI817652, AI933331, AA005195, BF999425, AI381813, BE221278, F36543, AW087421, AW167326, F30327, BF850865, AA953702, AI242910, AA367411, AI363751, BF834497, BE048256, BE708177, AW379838, Z42044, AI351935, F01568, BG055860, AI691123, BF772332, AI783542, AI131405, W05190, AV702728, AX040389, AX040390, AK022692, AB033104, AL133630, AX040393, and AF200815.
HNOKB73	334	100448 0	1 - 1202	15 - 1216		BF672055, AI828433, AU145153, AI909113, AI831421, AW471345, AI909126, AI922310, AW511425, AW151865, AA861631, AA993238, AI909131, AI688870, AI922300, AI310077, AI620982, AI272867, AW628057, AW057746, AI623341, AW117681, AI267991, AI818511, AA487193, AA291847, AI222864, AW190743, AI914551, AI692825, AW189277, AW304917, AW055334, AI278911, AA661670, AI969389, AI909123, AA894780, BE049422, AI453695, AA911888, AI571659, AI862021, AI621161, AW627585, AI569192, AI624941, AI571426, AA194152, N67602, AA688382, BF857139, AA486838, AA291725, AW263429, AI653841, AW020368, AI453306, AW090321, N64130, AI279927, AI249255, AI926018, BF884826, AW390274, AW294466, AW361842, AI696774, AI275762, N45716, AW089415, AI262331, AI811607, BE939116, BF750734, AW608182, AI624961, BE939114, AA367257, AI687265, AI698996, AA297958, BE937479, AI701193, BF744029, BF858828, R82992, AI909128, AW167711, AW198062, N48994, AI866006, BF882878, BE940672, AW816180, BE818295, AI909134, AA194103, AC018634, AF026692, AF117709, AF140346, and AF012891.
HODFB06	335	100458 3	1 - 748	15 - 762		H99646.
HODJA76	336	100461 9	1 - 447	15 - 461		AW977567, AA907333, AA814897, AA836609, AC005567, AC002565, AC005480, AL356299, AC005520, AP000066, AC073593, AC005736, AC002394, AF196969, and AL121890.
HODJY60	337	100462 5	1 - 2212	15 - 2226		AL515853, AU133237, AI654122, AU126018, BF058308, AV725133, AW183152, BE671606, BG253097, AI948488, AI950097, AI927294, AW969418, AW275334, AI076608, BF940262, BE535180, AI417857, AI952810, BF959274, AI417041, AI420844, AI379187, AA723579, AA913702, AW394103, AW949335, AA393920, BF979295, AI093193, AI313185, AU129447, BE253557, AI017439, AA313310, AI590307, BE890745, AI346472, AA962778, AI276140, AI985266, AI336030, N98729, W96013, AI299081, AI092621, AA233883, AA232829,

					<p>AA781239, AA622011, AW072156, AA393816, W94867, AA609830, W31110, AU116848, BF819291, AI082414, AA314016, N51280, N56619, AW291732, AA776847, AA455083, AA493714, AW394076, AI468453, AV695898, BE168785, N36233, AA731537, AI870707, T86928, AA235859, AV647197, AW752864, AI640207, AA429798, BE865766, AI640206, AI082534, H98542, AI569628, AA027841, AI569818, N99968, R92374, AI205830, AW851013, AI739354, AI245327, AA480260, AI274055, AA732762, AI002565, AA865045, BF212369, AI351016, AW086045, R79060, AI701728, N29663, T10195, H13610, AA027906, AA858240, AA385768, AA146905, R78751, R42309, AI473130, AI470964, AI914661, T67643, AW379568, R79439, R79440, H60159, R16364, AI572204, T81369, T81368, T79138, H98568, R34819, AI868283, T87007, T10194, R34708, T81696, BF376256, T78651, AA558922, C21521, BF358554, BF358559, AW995536, T81484, BF803137, BF358570, BF527611, AA916657, AW365960, AW387409, AW365962, AU077288, AW191737, AW805831, AW496790, H13241, AI291610, AI686163, AA911580, D31095, AA226320, AI302576, BF588761, D31161, D31474, AA662158, F27660, AI091013, AA406478, AI866679, AI357567, AU143828, AU154607, AU151560, D31031, AI122554, AA452028, AW874359, AW975085, AW473972, AW169600, F36093, F37355, AL151582, D20919, AW439053, D31309, AI360390, AI475944, AW468490, AU149562, AU156455, BF352364, BE702458, AW394081, BF821859, AA905362, BE220171, BF756901, AW496791, BF326825, R92373, BE327258, AI273552, AX014920, L28997, AK001489, X76920, UI2402, AL133620, AA253087, AI279963, AI640198, and AI767022.</p>
HODEF10	338	100462 7	1 - 593	15 - 607	<p>BF799949, AV719557, AW973490, AW978634, AW966032, AW949656, AW973474, AW966059, AW959597, D80188, AW975613, AW959136, AW973482, AV699447, AW966029, D59859, AV720533, AV718489, C14389, AW956397, AV720616, AW973307, AV722801, D59927, AW975618, AW949642, AV718707, D58283, AW959202, D81030, D51799, AV720211, D80253, AW959799, AW966053, AW966531, AW978661, AW966386, AW960553, D80166, D80043, AW962082, AW959570, D51423, D59619, D80210, AW966075, D80240, AW973330, AW966065, AV719822, D80212, AV718692, AW958993, AV699550, AW949629, AV719324, AV718938, AW960465, AV718633, AW975605, AW966399, AW973488, AV718931, D80391, AV720878, AV720731, D59787, AV723927, AV699866, AW964488, AW959628, AW973334, AW966534, D50979, AW966022, AV723097, D80227, AW966013, AW960473, AW965177, D80022, AW966041, C14331, D80219, D80195, AW958992, AW973445, AW975621, AW978648, AW949631, AW949643, D80196, AW949618, D59467, AW965175, AW965163, D80164, D59275, AW973541, AW966030, AV720791, D80366, AW966054, AV720203, AW964756, AW966050, AV719188, AW966062, AV718440, AV719783, AV720028, D59502, D57483, AV719468, AV718800, AW965185, AW965197, AW965196, AW973485, AW965184, AW962395, AV718844, AV720464, AV718770, AV724520, AW959062, AW964477, AW956434, AW949641, AW964468,</p>

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HODFB03	339	100463 1	1 - 775	15 - 789	BG034836, T75233, BF572603, AI557036, BE697488, AL513776, AI216670, BF747008, T10253, BF745947, R61073, BE843957, BF746454, BE769157, BE766105, BE714429, BF744295, BE765690, BE766038, BE766098, BE766167, BE714404, F12922, BF745931, AA434502, AA465014, T05292, X74331, AJ011607, D17385, D13545, and AL121958.
HPMLN08	340	100463 2	1 - 1380	15 - 1394	BE709782, BE832694, BE709778, BE707630, AA430593, H80277, H80291, AI652995, BF383125, AA193566, AU158293, BF747189, BG260723, AA243826, BE491960, AW063724, BE222441, BE502344, AA164268, BF196258, BG170263, BE932825, AA508073, AW294783, AU155794, AI819266, BE169617, AI468739, AI082255, AI417116, AA385339, AI382168, AI701563, AI031661, AI436306, AW576939, AV715887, AI709346, AW195764, AW044458,

HODEH08	341	100463 3	1 - 364	15 - 378	BF002627, AI802164, AW340159, AA479123, AI224847, AK023738, AK023448, and AF113697. W44489, BF344927, BE385927, BF683537, AW406647, BF214121, BF671254, AW248978, BF675993, BF791283, AI083656, BE783427, AA340719, BF038972, BF907681, AL523352, AV697332, BE791818, D31255, AU127744, AA370162, AA488592, BF027044, AL523351, BE513340, BE270073, BF446423, BE397826, N27234, AI582770, BF095260, AA410725, AI817900, AW799742, H29999, AA331358, BF675835, AI580242, AA358813, AA370640, T97410, R07253, BF210442, AW248314, N33990, N25001, W56853, N33751, AA360045, AA371439, N28848, AA344067, BE813738, BF680023, N27913, AK001410, AL136131, AF114816, AF114817, Z59378, Z64078, and Z54696.
HEGBF25	342	100463 5	1 - 1333	15 - 1347	AW960487, AW170566, AA463471, AI590283, AI479619, AI356285, BE671701, AA443030, AI279424, AI475890, BF948785, AW105033, BE646579, AW469714, AA282026, AI870381, AI692574, AI357242, AW135396, AI306543, BF929181, BE856482, H24386, AA055932, AI125211, R60550, AI934615, AI979010, AA902204, AA557305, AI860938, AI566567, AI420407, D31141, H24399, AW136075, AA913241, AA055381, AI251746, AI249885, AA722942, AA328301, AW204848, AA748866, AA324275, AI698815, AA524094, AA729225, AW206983, AL041606, AA902634, BF091853, BF086880, AW137312, AL041448, AA865160, AI009770, and AF069736.
HODJB51	343	100464 3	1 - 441	15 - 455	AV761433, BE328286, AV658560, AA468371, H52948, AA297662, AA419107, AA419014, BE543545, AA904211, AA313075, BF927768, AI268019, AI194858, BG057757, AI344962, AA644571, T74524, BG169404, AA468505, AI801563, AV754716, AI887235, AV720672, AL096791, AC008745, AL022238, AC009477, AC003982, AC008989, AC002477, AC006064, AP000511, AP000167, AC008623, AC020908, AF165926, AL138807, AL157877, AC006026, AL121890, AL109627, AL109963, AC020552, AF254983, AL354720, AL031662, AC005822, AC011497, Z97985, AL049834, AL136170, AC005399, AL157838, AC005102, AC008753, AL159997, AC002350, AC005829, AL136000, AC004166, AL163201, AP001719, AC004685, AF168787, AL031281, AL031282, AC008764, AL022163, AL133448, AL022316, AL135744, AC010328, AC022150, AC006088, AL160231, AL078461, AC008569, AC006538, AC008372, AL049643, AF111167, AL138752, AC006312, AC005914, AL162430, AL109825, AP001660, AP001711, AC005529, AL136418, AC004821, AC010636, AC002511, AC019227, AL109806, AC011442, AF196779, AC004125, AL031121, AL050335, AP001727, AC020754, AL050307, AC009314, AL137783, AL121748, AC018720, AC004840, AL163249, AC006329, AC005052, AC011895, AC005412, AL008718, AL009051, AC006001, AC005089, AC009470, AC011477, AC005726, AC008784, AL034379, AL133246, AC004033, AC021999, AL109804, AC022407, AC004983, AP000512, AL031291, AC006101, AL022476, AB023048, AL117258, AC007193, AC007383, AL157776, AC010363, AC008521, AC007021, AF190464, AL138832, AC016543, AP001748, L44140, AL139100, AC004890, AL355094, AC004895, AC002302, AL117694,

HODEC38	344	100464 8	1 - 2163	15 - 2177	AL138759, AP001753, AL163279, AC004813, AL136137, AL096800, AC005670, Z82244, AC011500, AL024498, Z98941, AC010463, AC024561, AL031295, AC005702, AC008760, AL121897, AC006349, AC009086, AP000557, AP001717, AC007957, AC008752, AL354864, AC008736, AF205588, AC0068799, AP001731, AC010422, AC011455, AC008551, AL034420, AF243527, AC005231, AC007954, AC020603, AC008267, AL034380, AL049694, AL033527, AC025588, AL109801, AC004491, AL118505, AL049776, AP001720, AC004867, AP001747, AC010150, AC006211, AC004893, AC008154, AL022396, AC000052, AC004019, AC002992, AL121845, AL035420, AF215937, AL049795, AC006050, AC006455, AL358777, AC005098, AC005005, U85195, AL136087, AL031667, AC005244, Z83851, AL359846, AC005056, AL049766, and AC008264.
HODIQ24	345	100466 0	1 - 3410	15 - 3424	AA461384, AI638162, AW974192, AW157286, AA702534, AJ003425, AW161799, AA701970, BE258604, AW162461, AI692285, AW265397, BF110566, AW163084, BE504104, AI126148, AA158404, BF110968, AJ003426, BF436206, T78960, AA573177, AI934177, AW163340, AW161342, AA158501, AW160450, AA476353, AL527124, AL523845, AW385571, BE620912, BF347756, AL524949, BF65010, BF835996, BE620514, BE392373, AU127111, BE925487, AI207818, AP001759, AP001469, AK026578, AB005543, AB011144, AJ010089, and AK001370.
HVVDD56	346	100488 7	1 - 2637	15 - 2651	AU132377, AU132354, AU137607, AU120802, AV725435, AV725504, AV727393, AI907846, BF431871, AI971541, AW956982, BE542598, BF977694, BF218040, BF194954, BF572088, AU152685, BE468132, AW274295, BF326712, AV728832, AI290910, BF696191, AI458284, AA918601, BF132210, AI299489, AI306415, AA947581, AA042992, W35163, AA779334, AW470321, AW028573, AI625411, AA255546, AA451702, N40098, AA115015, BF431827, AI248585, N24288, BF087866, AW138804, H84453, AA885588, AI637730, AW970127, N32948, BE464747, AI631137, AI638290, AI637904, AW470388, R52158, R85459, AV704648, AW295739, BE719830, AA514606, BE714126, BE813424, T71262, AA708740, AU156698, H50037, AI085037, AA256661, AI587226, BF821343, AW169353, R23147, AA115014, AU151591, AI701772, AA493555, H98720, BF845314, D81437, AA946917, AW168776, D80972, AA368643, N27158, AW805841, AI922080, AA931683, AA977047, W20387, AW130610, AA247897, BE827896, AA962286, AI217571, AI702845, AA975966, AW002803, H49993, AI002410, BE964392, AA042824, AA902321, H84454, AI918223, BE813423, AB037840, AK001495, AX034574, AK001892, AX009324, AX009325, AX009319, AX009322, AX009321, AX009326, AX009318, AX009317, AX009325, AX009320, AX009316, A91748, AI656001, and AI656713.
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HTHDV01	347	100495 0	1 - 2166	15 - 2180	<p>BF343723, AI971257, AI922196, AI810067, AA932024, AW195330, AI207838, AV722680, AI346751, AV758001, AW608044, AV713548, AW073373, AW009706, AI590359, AV717241, AV714666, AV687702, AI891081, AI672451, AV649298, AV722097, AI381534, AV652022, BE220350, BE048347, AI573282, AW874080, AW024264, BF337994, AW874253, AI870222, AV760953, AI685727, AI627992, AW360985, AW607239, AI784604, AI950829, AV652082, AI925643, AI962991, AV722223, BF855049, BE046054, BF691186, AV717072, AV720361, AI885957, AI017462, AW664593, BF526890, AI925005, AA843677, AV693121, AI634947, AW770406, AI697419, AA477579, AW316704, AI248184, AA442759, AV713149, AI801820, AI982678, AI972075, AW662094, AW513222, BF854957, BE840522, AI701954, AV697674, AW276098, AA401957, AI460284, AA932526, AI570388, AI453821, AA662536, AI800205, BF853617, AA922678, AV759269, AI005625, AW510478, AA576407, AV747778, BF853756, AI469437, AI261318, AI799500, AA878863, AI889320, AA947992, AI624670, BE840523, BF854954, AI985773, AA746085, AW022137, AA583463, AA514238, AW750674, BF854908, AI610837, AI623966, BF901154, AA566089, AA507952, AA428304, AW805573, AW794742, AA429721, AW768483, AW518282, AI272071, AW845414, AW873164, BF063059, AI537788, AW024169, AA485546, AI373585, AA745909, AW960245, BF853826, BF854206, AA996237, AA837997, AI268596, AI074096, AA496403, BF678821, BF854956, AW794752, AI557549, N67917, AI659705, AA284642, AA887178, AA280404, BG222536, AA985597, AA496353, BF914755, AI268601, AV758482, BF055969, AI954543, AI278945, AV717009, AI356974, AA505878, AW996924, BF477592, BF724668, AW243755, AA620979, AV755843, AV757256, AW022260, AW022208, BF854906, AW877772, AV656426, AW020000, AV654223, AW372625, AI348684, AV742513, AV756665, AA617991, BE940601, AI630329, AI537593, BF828311, BF913462, H30122, AA777812, AA844283, BF914742, AI244382, AA290764, BE041558, BF829019, BF829005, N66497, AA864382, AA757380, BE813852, N23726, BF880804, AI857753, AI479529, D57403, D57829, N68137, AA631437, AA351062, AV734554, BE697034, BF378599, AA937471, N36944, D57395, BF093861, AI557550, AA975329, AA249247, AL134796, H63166, AV658281, AV656501, AW118330, H27631, R79476, D58166, W95944, AW805669, AW021936, AV744824, AV733262, AV725042, BE176841, BE814031, AV654387, BF828021, AW021706, BF476645, AA618186, D58096, AV749166, D57778, BE929600, BE938157, BF357923, N23730, T27640, D57449, BE174681, AI245094, AW579397, D57757, AA040944, D57518, AI678887, D57468, T27639, AW939698, D58277, AX014320, K00650, I96207, AF111167, X06769, V00727, J00370, AF033012, AJ132510, AF061881, M37000, M18043, AB022276, AB020214, AF069515, Y14808, Y15747, AB022275, AF029166, AX010026, S60557, D12551, I24430, AR040781, S65140, T61093, R10192, R10215, T97774, T97881, R13148, R31511, R32943, R33906, R33921, R37053, R44148, R49880, R44148, R74449, R79209, R84834, R85530, R95977, H71003, H71015, H83387, H83388, N36936, N52416, N62388, N72823, N73801,</p>
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HVVDI95	348	100515 3	1 - 1286	15 - 1300		BE744159, BE735588, BE562290, BE543899, AV703356, AW951513, AI869315, BE397694, BF344590, BE222785, AA147088, AW888880, AI421559, BE048028, AW131473, BE904977, BF593805, AI860630, AA307132, BE693231, BF195558, AI859194, AA554706, BF848110, AA779596, BE671642, BE671636, BE772850, AI817963, AW131732, AI131006, AI131235, AI298506, AW360926, AA132115, M79142, AW085550, BF827911, R32144, AA996236, AA827499, AW961823, BF847182, AI864171, AI810869, AW083177, AI279054, R21586, AI683076, R32143, R49059, AI682910, AW959257, BF340401, N48917, BE764109, W07596, H03637, T32822, AA902240, AI951120, AI302680, AA031941, AA555053, BE502039, AA557656, AI795815, AI874400, AW806659, AW020184, AA318860, AI909782, AA327450, AV655438, BE242543, AI935791, AI702044, AI913289, BF432516, BF848050, AA132349, R49185, R33114, AI948650, F03268, N46415, AI419183, T29712, AA147145, N20886, HI9201, AI539258, BF739937, AA904255, AI356503, BE140381, AA348337, AW806516, R62224, H03636, BE220594, AI636387, AW515881, R33262, AW166586, R64601, BE328664, AW016275, AA581451, N78707, AI915762, BG117733, AI540261, AW997810, AW889502, AA319725, AA985516, AW169409, AA319821, BF340433, AL118620, AA348452, BG058342, AI962093, BE719358, AW883253, BE719354, BE885116, BE735840, AC000395, AB037729, AK000242, AK024575, AF295773, L07924, L07925, AF295780, and U14417.
HODIY29	349	100523 6	1 - 2101	15 - 2115		BF850023, AA904772, AI936458, AW328025, AV751671, AW629145, BE695496, BE695579, AW024363, AI198959, BE695471, AI349413, AI341534, BE695595, AW511051, AI218318, AI087061, BE695610, AA609271, AI366723, BE695599, BE695474, AI093675, BE695613, BE296186, H58337, W03883, AA279464, N65952, R91414, H78868, AI630666, R70876, W79400, AW382181, AA362029, BE895116, BF089826, H28788, AI480262, AW117400, H58726, W79513, H80111, BE764221, BF365918, BE068813, BE695504, BE695512, BE764265, BE695494, H63582, H63540, BE764277, T05675, H28762, H66903, H66858, BF365940, BE764232, BE816201, AL079551, AL079533, AA094526, N94211, BE271751, BE768528, AU126895, BE816196, BF331621, BE764248, AA279129, R15357, BE783140, R17312, AW805680, BE545692, BE778796, BE764309, AI783879, AL079534, BE695609, BE774755, BG170522, BE695566, BF875922, BE708280, BE695475, BE695472, W42817, BE815092, BE768557, AI567131, BE695450, BE695612, BE695598, AA091206, AW837053, AU128777, BE816203, AW887482, BF305224, BF918481, BF968385, T77720, AA568428, AF139897, AP001717, AP000114, AB028942, AP000303, AP000304, AP000046, X63071, X63753, X63754, X71604, AL356276, M36428, AF193607, AF193597, S47241, AF193600, AF193598, and AF193599.

HOELP29	350	100535 9	1 - 1308	15 - 1322	AL530557, BE791049, BE618996, BG257624, BE731913, BE886771, BG114069, BG116664, BE856856, BF797021, AI741539, AA877855, AI800932, N32038, BF432001, BE898057, AI694373, AI808071, AA262486, AA903806, AI138931, BG255357, AA468735, AA470769, AI138466, AA954750, AI151371, N29514, AI189798, W49771, AA814845, AI183296, AI357130, W70171, AA280787, W69944, AI186447, W69834, AI499111, BE908525, AI086208, AU129984, BG025691, W69906, H87149, AI469927, AW971625, BG250733, BF325889, BE141551, AL527393, N57458, BE696978, BE696980, AA035645, BE891620, T48534, AI188861, AI160592, AW516114, BE327105, W30843, BF745219, AI619930, BE763528, D78335, AB030700, and AA280793.
HWLFG04	351	100538 4	1 - 1040	15 - 1054	BF309040, BE727908, AW080447, AI813764, AW156901, AI624222, AI954032, BE727602, AW473780, AI861975, AV711593, AW511541, BG117850, BE892765, BE301686, BF941321, BE727148, BE877682, AA669760, AU136925, AA604124, AI186207, AI951492, AI016700, AI125916, AA081009, AI673719, AU160400, BF211379, AA173953, BG033959, AU146424, BG164551, AA666305, BE873924, AI100874, AW304292, AW471151, AW513002, AI580161, AI078833, AW068925, AI811621, AA666358, AA534849, BE786612, AA662226, AI432440, BF732965, AU150305, AI139223, AA130980, AU155685, AA707346, AA724885, AW474759, AU157841, AL120428, AV711263, AI141060, AI244874, N66401, D53110, BE834286, T57109, AI288812, BG104684, AA099214, AU156023, AI537130, AI167469, AW263441, AA173643, AU157341, AA187544, AI357914, BF084240, AA938617, AA632832, AA157933, AV714164, T33607, BE834321, AA807994, AI381658, BF086680, AA634268, AA315460, AA224251, BF086663, AA557374, T90497, AA639802, BG117431, BG118933, AA826543, AA551431, AA282337, BF726089, T69431, BF981803, W28397, AA948655, AI128023, BE727393, AA256923, AA130975, AA565098, BE728536, BG029544, H89626, BF882766, AA872943, T36145, AV748147, AA632190, AV704174, AA330174, AA130436, AI686635, AA130437, AA076099, BF086506, AA729737, AW392904, T92925, W04825, BG253169, AW802882, AA009665, AA356814, AI263840, BF211293, AA070450, BG166290, AA810386, AW392890, AA235380, AI954229, AA041269, AL520247, AA481985, BF215385, AI744430, AA928912, AA731542, AI208724, AA777668, T90593, AA887638, AI559330, AI801006, AW975764, W46171, R86972, W44443, BE928509, C02751, T25894, AI581770, BE168358, AA084634, AA358962, AW392839, AA771848, BE764142, AA894945, BE182212, BE543242, T10776, AW392836, AA394224, AA878485, BG168089, BE163936, AI582590, AA197336, BG180181, AI833003, F35679, AW768788, AW190598, AA398137, AA481889, BF726929, AI826585, R27279, AI557490, BF061257, AV702131, AI766834, AI033007, BF738475, AI811690, AA627813, BF086524, AI241386, AI248407, AW820874, T93041, AW392848, W46535, AU120330, AI096806, BE876198, BE890386, BF913319, AU137916, AI833030, AV751052, F23284, D25873, BF082805, AW852076, AA301281, AW959407, AX014875, AX017985, AF090891, U33821, AF268075, AK000098, and AC004549.

HYAAC49	352	100551 1	1 - 769	15 - 783	AU139442, BE569198, AU135922, C75131, AV718280, AW390194, BE865872, BF240773, BF571465, BF183939, R24772, R14521, BF184986, AU127909, BE380148, R35572, AA385863, BF795902, BG115301, N83156, BE560295, BF243095, BF805901, BG037006, W86403, BE890587, AA322376, AU128221, BE885883, BF218257, AA447000, BE171121, BF240001, BF666629, BE886808, AA496772, BF305089, BF102486, BE548882, BF211322, BE154533, BF434758, AI983937, U87166, AF001628, AF260262, AF006516, AF176784, U17698, AJ277071, AJ277068, AJ277067, and AJ277069.
HCOOA71	353	100584 3	1 - 680	15 - 694	BG032088, AW674754, BE793744, BE301427, AW001177, BF796457, BE2222626, AA676823, AW245046, AI742447, AI086381, BE382943, AI038253, AA631108, AI432174, AV740792, N36161, AI354418, AI138537, AI435564, AA622991, AI432169, AI288565, AA412597, AI298942, AI628257, AA769383, BE731107, BF025815, AA262361, AI333049, AW138279, AA489757, AA426358, AI185088, AW071200, AA678330, AW974396, H81770, AA383464, AA325218, BF663601, AI826476, AI570948, AA758452, AI659519, AW975605, AA953294, AI351414, N94604, AI086406, AI858778, BG222816, AW474212, AI351407, AW328179, AI201546, AA426521, AA649981, AA700598, AA489649, AI085660, T99013, BE770129, BE770165, BE387301, AA827478, BE770154, AI382758, H29471, AW629408, AA852445, AA559102, H99900, F18425, BE018615, AA377901, AA714184, BE792052, BF932098, AW797213, BF898501, BE302202, R07444, AA359193, AI797445, AA639044, BE206518, AA357798, AA648070, BF765959, BF768917, AA094140, N57963, AW361814, AV744851, BG22117, AI745563, BE727188, BE170556, BE407088, BF305624, BE513977, BF129902, BF845366, AI795892, AW363952, U46389, AA357516, AA373724, AI401076, AA357714, Z96932, AF116691, I89947, and AA232683.
HOUFB45	354	100597 4	1 - 866	15 - 880	AI825882, AI696873, AI738563, AW103989, AW613147, AI268306, BE793730, AW770856, BF061575, AW051548, BF739812, BF958201, BE273154, AA858218, AI090497, AI075184, AA815445, AI381954, AI284912, AA235085, AI571911, AI218189, AA85429, AA626489, AA922962, AA424585, AW078477, AI832643, AI743823, AI221668, AI690707, T34988, AA769343, BE348685, AW769161, AI952634, AW452891, AA976512, AA687740, Z40231, AA235212, BE246574, AW572211, BF797899, AI014979, AW603755, T82196, AI766582, AI915196, AW078592, R43900, AI869134, AI524517, AI635964, T35732, N24554, AI866546, BE074731, R43261, T32374, BE265660, AA206547, F01511, AW079587, T82197, BF530913, AA235496, AW450279, AA625573, BF337280, AW979330, N33999, AI312812, BE273206, AA693982, BF927110, AA400118, BF892007, BE874163, BF814420, AW262593, AI471271, BF892003, AI003314, BF904265, BE965707, AI174819, AI344935, AV712612, BG257545, BF934149, AA648447, AB002328, AF072441, Z92546, AP000353, AI390166, AC009361, AF061947, AF308801, Y09972, AF130110, AL049430, AL050389, AF056194, I46765, AF090900, Y12226, AB029066, AL133028, AL133015, AK000502, AK026104, AF151076, X63530, AF114168, AK027114, AK026600, AF175903, AF177340, AK000285, AF124435,

HUSJ14	355	100601 8	1 - 2396	15 - 2410	AB052191, AF202636, Z48796, AK027200, AX015416, AK027137, and S69407. AU125044, AU125106, AU124136, AU132115, AU142302, AU123505, AU128772, BG259270, BG104503, AU127066, BE877587, BF102972, AW961540, AI819062, AW137042, AA218870, AW268435, AU159649, AI914414, BF571164, AW965326, AW021609, AW859986, AW960460, BF667479, AW859994, BF571923, AI290998, AU132875, AI805453, N42226, AA453340, AI143590, AI961984, AW965469, AU133448, AA534880, AA805995, AA478879, AA315171, AA478622, BG250380, HI0486, BF910659, AW083409, AI279728, AA022968, AI859003, AW820411, AI971338, W27642, BE940037, R35417, BE940013, AA810040, BE940009, AA909119, R71284, H30337, AI743639, T17061, AW820415, BF913401, BE698731, H97022, BF243145, BF002853, AW604825, R13747, BE174730, AA332955, AA600911, AI086130, T87426, AA330024, AI092372, AJ239430, AA461371, C01331, AI224398, N41982, AW752484, AW752492, AW051138, R14406, AW452485, AI439708, BE694190, T99701, R08328, AA091602, R58882, R16157, AW500586, AI382652, BE934080, AA252088, AI061448, W27426, BF088818, R08381, BF088814, BE880142, AW820413, BF589424, BF229364, BF913396, AI620838, BF088832, R19923, T99096, BF229365, AU154390, AA327941, AA190558, T77110, BF356534, AA738469, BE856271, AI697789, AA588155, AU151002, AU148839, AI086357, N30259, AI624125, AI859524, AA464855, AA946796, AW470143, AU153720, AW368233, R44163, AI183953, AI092159, AI803728, AI18332, BE173781, AI038144, AW022885, AK022572, AK001676, AK001754, and AF052123.
HMCDB21	356	100605 5	1 - 556	15 - 570	BE464861, AI652330, H91834, BE703983, H91879, AA759248, AA769818, AW593481, AA902687, BE972738, AW235775, AI379370, AA974129, AF100774, X57477, X57689, X57476, X57688, and U79668.
HSDEY08	357	100614 2	1 - 1956	15 - 1970	AL537989, AL533695, BG170919, BF972004, BF345100, AW026975, AI937448, AL532622, AI806907, BE378539, BF967058, BG115124, AI869308, AI150559, AW007470, AW149368, AI360337, AI479472, AW411234, AI199048, AI199509, AI300927, BF341774, BF688178, AW511458, BE296272, AI655154, AI652153, BE270387, AI377853, AI609567, AF147181, BE295186, BE270395, AI500244, AW965710, AI878920, T06902, AA354921, AI027477, AF147185, BE295192, AW050894, R72213, BE858989, BF886588, AI703318, F05831, AA077697, AA077739, AA077344, AA076971, AA506828, AW885532, AA357567, AW885629, BE811342, BE773565, AW002991, H30179, AA077004, BE269771, AA077615, BE701815, R73305, AA077477, BF953004, BE811355, BF509539, AF147184, BG149726, BE773538, BE833501, AF147190, BF247437, BF090978, H45089, AA349590, AA077534, AA402202, AA405835, AA402203, AC021097, AC005486, and U66619.
HOOJT92	358	100621 5	1 - 2631	15 - 2645	AL044704, BE271772, BF796439, BE746386, AL044621, AI051986, AA127622, AL046283, AV702820, BG121331, BE746300, BG176577, BE747570, BG035456, BE857140, AA121525, AL044622, BE315418, BF796863, AA046983, AI038252, AL040929, BF431928, BF819832,

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HFATL31	361	100639 9	1 - 986	15 - 1000	BF032069, BF573484, AI286073, AI129332, AW303806, AA287382, AA287509, AA478080, AI215982, AA744791, AV750824, AA406109, N49389, AV721062, AV725349, AI569330, AA808380, AW752428, AA652789, AI205111, R68889, BE835495, H87507, N49478, AA683003, AI784410, AA720647, BE041750, BE005144, AA058432, BE181095, H01638, R72970, D81097, R68789, AA056754, BF572784, T27346, R73585, BE513259, AW338565, AA906927, T27284, AA247719, H01529, H87508, BE215445, AA749501, AV691095, BE379738, and AK027171.
HE2JE77	362	100644 5	1 - 561	15 - 575	AI808778, BG054989, BE857601, BE885329, BE881349, AW304934, AW962192, BE712961, AI880009, AI815709, AW163154, AA526969, AI150509, AW161293, AI146808, BE712850, AI088675, AA722187, AI990261, AW451154, BE712843, AW449490, AW161970, AA115532, AI983943, AI492618, BE712919, BF589503, BE712889, BE713004, AW162759, AA719439, M79223, AI804223, BF939296, AW972384, H97676, AA552629, R76719, H41614, D80207, T31248, AI796667, R75663, H13188, H13189, H18312, BF886117, BF762457, W23735, AA115533, AI203992, H97439, D56295, AI832722, W35334, AI432110, AA084432, AW157796, H18170, H40836, AI916646, BF977122, AW083168, AA602325, BF338333, BF131373, AI434123, AW880236, BF726099, AI654105, BF726100, BG029058, BF339019, AI086254, AL118520, AR075096, U05784, AF119856, AI050015, X00861, AF113676, X87224, AL359382, U72882, AI131955, AR059958, AL389951, AL133014, Z97180, AF218005, AF159141, I00734, AB016496, AF217972, AR095619, AL355713, AR095635, AB007812, AF188698, E00617, E00717, E00778, and AF144093.
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HTRAA05	365	100651 2	1 - 561	15 - 575	AI742386, AI524073, AI401286, BE561354, BE295468, BE267749, BE513336, AI459535, AI889934, AW962270, BE712449, BE712458, BE695348, BE712281, BF106390, BE560144, AI927392, BF727086, AI160850, BE792824, AW081202, AW029525, AI814545, AA701033, AV703327, AW104087, AI886582, AA575902, BE695412, BE712223, BE712220, BE695398, BE712549, BE695418, BE712279, BE712505, BE712319, BE712008, BE695425, BE712770, BE695432, BE712628, BE712414, BE712498, BE712213, BE712504, BE695389, BE695426, BE712510, BE712170, BE712624, BE712232, BE712047, BE712014, BE695407, BE712104, BE712166, BE695391, BE695427, BE711646, BE712506, BE712331, BE695413, BE695403, BE712285, BE711560, BE712102, BE712622, BE712773, BE712502, AA770666, BE695378, BE712050, BE695420, BE712334, BE695373, BE712544, BE712724, BE712548, BE712555, BE712553, BE712222, BE711652, BE712547, BE712787, BE712108, BE695422, BE712212, BE712103, BE695419, BE712211, BE712421, BE695416, BE695424, BE695401, BE695384, BE711604, BE695436, BE695415, BE711760, BE695364, BE712430, BE712326, BE695429, BE695417, BE695404, BE695431, BE695423, BE695408, BE712231, BE695360, BE712670, BE711986, BE695409, BE712391, BE712668, BE695375, BE695395, BE711558, AA976480, AA767170, BE712324, BE695428, BE695402, BE695344, BE712587, BE695345, BE695374, AW591351, BE695382, AA576980, BE711587, BE712454, AA384751, BE712392, BF726553, BE712100, BE712507, AA687454, BE712322, BE712771, BE695414, BE695400, BE695434, BE712171, BE695362, AI367957, AA687513, BE711670, BE695381, BE695358, BE695368, BE711532, BF112286, BE712160, BE711502, BE711500, BE711535, BE695405, BE695346, BE695361, BE711842, AW079821, BE695377, BE712221, BE712045, BE712162, BE828330, BE695433, BE695421, AA352952, BE695355, BE695365, BE711508, BE695351, BE695383, BE695359, BE695379, BE712101, BE695350, BF837811, BE711614, BE711657, BE695352, BE695376, AW370204, AW510617, BE712003, BE711603, BE828321, BE695392, BE695410, AI460272, BE695393, BE856500, AI309112, AA907009, BE712456, AA411532, AI739011, T71962, AA507928, BE695430, BE828315, BE828313, D60602, BE828312, AA317838, BE712474, AV688621, T81771, BE327944, BE695356, AA662912, BE711542, BE940444,

HMTAL96	366	100663 5	1 - 1821	15 - 1835	AA522896, BE695380, AW071632, and T71693. AU121947, AU133408, BG107816, BF978353, BG167070, AU136479, AI912625, BE787533, AL043108, BF978689, BG118584, BF575979, AW946781, AA541465, BE896118, BF242492, BF673227, BF574674, AI769406, BF573737, AI677825, AA843784, N90942, BF679753, AL133947, BF340046, AI122639, BF338412, AI956122, W58349, BF674910, AW946784, AI146802, AA433844, AV721278, BF213289, AI829684, AI248810, AW148927, BE549681, AI634356, AI693209, AA313329, AV721952, AW015279, AV721448, AW970646, W48807, N33995, AA770568, BF570691, BE046360, AI200909, W52177, BF670447, AW337556, AI925678, AW137200, AW946872, AA740996, AW473986, AA04616, AI088578, BF986183, AI302975, W58474, BF572827, AA176436, BG149747, N36852, AI090980, AW440100, AI814300, BG031130, AW403227, AA846487, W52178, W60313, W60262, BF577093, R80598, N35139, AW080740, BF930195, N46123, BE891377, BG231991, R80597, AA178883, R23907, AI244465, AW027841, AV707552, N36871, AA262561, AA626808, AI127632, R24938, AA158096, AV705840, N46141, AA165152, AA165180, H94816, T28111, H89174, AI523244, BE539497, AW876080, AA885512, N32999, AA042803, AI291968, AW271335, AI374631, AI928012, AI582354, AA905984, AI391678, AA654121, AI470822, AI659820, AU150290, AI435866, AA478972, AI672499, AA782245, AI683540, AI242454, AI963948, AA098811, AW974863, AI970953, AA098979, W47019, N24550, AI656583, AA098926, AI811590, AI346328, AI702054, AI926667, AI565050, AI669676, AW300195, AA626702, AI078689, D20104, AI910690, AA991913, H80964, T70014, BE041620, AI432060, AA329386, F00987, AA677620, AA450363, BE328391, AA100143, R82731, AV749441, AI912968, AI681692, BE219987, N89579, BF575528, R23125, R23127, H83940, AW404323, BF446671, AA730321, BE253861, AA069494, AA808762, AA370257, Z28753, T29433, BF732515, AI365551, AW502459, AA243213, T39145, BF530380, AW795398, AA973669, W46200, BE183279, AA836447, W23989, BF105047, T39150, W17101, BE041692, BE827333, N91885, AA453560, D45259, T10404, N47782, AA091310, AV749903, R23998, T27528, AA165310, AA248615, R23906, AI420657, BF240034, AA809895, R31791, BE006042, AA089814, AV718352, BF447937, BF003074, AA863104, AI095737, BE220393, BG236248, AI420216, AI597664, AI972622, AA523550, BG036924, AI674511, BE673195, BF446200, BE550809, AA913502, AI218901, AI827982, BE674363, AX017503, AC018682, A93912, AL139099, AB031482, M31470, A93910, D49727, AF196993, AF197014, D50264, D49726, D49725, R62747, AA853568, AA916254, and AA969277. AI911957, AW804755, AI862391, BE067582, AI301580, BE067581, BG033220, AW817932, AI591299, R62701, AI590522, AA502683, AL040054, AA634017, BF991208, AW273830, BE261047, AI344810, AW021774, AI590459, BF767878, AW302983, AA579469, AI870204, BE243098, AI345123, BF854038, BF810071, AV710482, AI597820, AW303254, BF832078, AL133668, AA077776, BF925233, H05073, AI345550, AA634889, BF149427, AA654781,
HDTTP21	367	100685 8	1 - 693	15 - 707	

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HISEQ81	368	100694 3	1 - 500		

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HODFH02	369	100695 3	1 - 603	15 - 617	AW966385, AV700495, AW973541, AV718487, AV720211, AV720729, AV720104, AV719632, AV719822, AV701335, AV701332, AV701248, AV701431, AV701043, AV701017, AV701357, AW966342, AV699866, AW975623, AW973470, AV720616, T06155, AV718427, AV699746, D88547, and AC003010.
HOCPP18	370	100723 0	1 - 759	15 - 773	AI743840, BE877930, BF028625, AW968831, BG171528, BF244687, BF034731, BE738082, BF696564, BG249379, BE262610, AW610031, BF675618, AI168679, BF184298, AW582660, AW610024, AW610015, BF432167, AW582658, AW582645, AI368790, AW582649, AW404414, AA635047, AA977202, AA255745, AW609460, W74224, AI189196, W19875, AA423814, AW873607, AW674957, AA700205, N34074, AW673317, AI693774, BF207680, AA490434, AA811988, AA687682, H59322, AW675671, N25686, AA043487, BE738236, AA384027, AA970715, W03959, AA099633, N91486, AA844086, AW970706, H64607, AW361070, AA576387, AA527550, AI380149, BG180768, BF742317, AI149307, AI139270, BF334168, AA643654, BF965959, AI018593, AA513014, AA101966, BG180833, AI089738, AA419058, AI041791, AW139976, N73897, W74225, AW361045, H70242, AW024571, AA126714, AW271818, AI143332, H82629, AW958804, R26807, BE047049, AA987943, T85639, AI857573, AV687372, N22461, AW268579, AA090516, AW651630, AI244767, AA877283, BE041685, AA426291, BE765584, AA136056, AI819235, N56136, AI241275, T79549, N56398, R26004, AA889245, BG153704, AA641594, AA873098, AA757925, AW879744, AA043488, AK000666, AF150100, AL163279, AF150101, AF152353, and AF150102.
HODFP91	371	100794 1	1 - 1747	15 - 1761	BG253213, BF681335, BF372572, BF679493, AA420666, BF678593, BF327033, AI804263, AV704486, AI275402, N33388, W78024, AI083839, AI337610, T92186, T89120, N23972, BF371272, AA658363, BF370329, AI798226, AA253483, AI216498, AA234181, AI216502, R59949, AA253313, BG105540, N31873, AA225664, T89209, AW593695, AA662620, AA528445, AA513944, BF326921, AL042210, AA179786, AI669285, AW964036, AA352063, AI080345, R59948, AI344783, AA180503, BF891183, AW515141, AW997169, AA225610, BE940088, N98709, AA206457, BG003461, AR070464, and AL359561.

H6EDU06	372	100797 6	1 - 574	15 - 588	<p>           AV706787, BE907476, BF026598, AW070517, AV721296, AA156834, AI553893, BE675928, AI288705, AI762669, AW273834, AW024561, AI312660, AI138250, BE672892, AA626719, AA594341, AW974501, AI219985, AW071929, AA828157, AI309908, AI057511, AI268592, AI286041, AI870386, BG222673, AW303596, AI156597, AA812762, AI039165, AI024129, AI089622, AA456739, AI924451, AA989383, AA482452, AI803068, AA417820, AA994692, AI051535, AI801913, AI672921, AI800826, AA494488, AA455184, AI025564, AA954675, AI807763, AW952786, AA862743, AA887974, T98015, AI240669, AA977347, AA972180, AI368505, W24116, AA933043, AI784667, AA934066, AW183454, AI868633, AA907741, AW663428, T86139, AW205935, T89455, AI245098, AA513366, AA515593, AA338859, AA813534, AA115080, BE672891, AI381801, FI7301, C03097, AI659028, AA216001, Z42400, N91938, AI913851, AA992249, Z19268, AA365163, AI420340, AI656368, AA648946, AI583724, AA992479, C03931, AA770117, BE185666, AA479458, AV702417, AW964409, AV729376, AW960655, AW954134, AV652001, AV651955, AW963027, AW951270, AV725153, AV706417, AW964585, AW953807, AV702789, AW949478, AW962386, AV709273, AV703790, AW964440, AV709092, AW950443, AW960601, AW952403, AW952183, AW959806, AV656903, AV661704, AV697196, AW952751, AW956075, AV645936, AV709587, AW955723, AV658084, AV692600, AV650315, AV659389, AV697880, AV727613, AW955900, AV656373, AV726010, AV655280, AV660258, AV647789, AV708109, AW959521, AW956474, AV659294, AV727787, AV703146, AV686060, AV725745, AW951239, AV686064, AV660608, AV728148, AV659322, AV726156, AV654908, AV726590, AV656478, AV698545, AV709314, AV653353, AV708381, AV654070, AV660728, AV691080, AW951281, AV702385, AW949802, AV658275, AW955662, AV703669, AV707979, AV658751, AV727003, AV709580, AV725208, AV725582, AV708786, AW957517, AV659547, AW959543, AV727526, AV707155, AV703169, AV651920, AV725618, AW954439, AV727510, AV725633, AV707088, AV652156, AV728518, AV702266, AV725577, AV725033, AV706223, AV728924, AV725617, AW954206, AV727935, AV707863, AV725991, AV707304, AV696931, AW964421, AV726619, AW952410, AV703062, AV727822, AV699089, AV705135, AV701874, AW950888, AW962444, AV703501, AV702772, AW954237, AV701180, AW950258, AV707401, AV701183, AV709660, AV704585, AV709935, AV654035, AV707652, AV707654, AV728721, AV707663, AV683994, AV704042, AV654282, AV729220, AV709880, AV697288, AV698290, AV687035, AV706882, AV704847, AV694836, AV697498, AV702954, AV686420, AV694812, AV727238, AV682997, AV696866, AV727126, AV707656, AK026514, AF151894, AC004789, AX047063, AR050070, A62298, AF217994, Y08991, AX047062, A82595, A82593, Z30183, AX047064, U94592, S68736, AX009343, AX009341, AX009337, AX009335, AX009345, AX009342, AX009344, AX009340, AX009339, AX009336,         </p>
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HPCRD26	373	100801 3	1 - 1320	15 - 1334	AX009338, AX009334, A62300, AX040581, Y11505, AF006072, U45328, A91160, AR025466, AX046743, AI289208, and AI424481. AL522813, AL522021, AL515238, AL534210, AL527634, BE881394, BF967335, AL522812, BG168951, BE547168, BF683070, BE018646, BE251740, AL120106, AA156075, AW007510, AW772448, AL515237, AA557210, W81295, BE970056, BF967686, BF511071, AL535783, AW161414, AI905116, AA128693, N69846, Z43685, AW006138, AW274433, BE903335, AW594670, AI521862, AI905108, AW027481, BE302221, W17116, AI695301, AI300237, W93915, AA378300, AW793014, BG180670, AA866170, AA155990, AI655474, BF934862, AW084679, AW264238, BF765898, AI384123, AI357889, AA248880, AI367177, AI918724, AW304833, AI816910, AW264332, AA701939, AW303940, AI285409, AW166173, AW235873, N83196, AW890020, AI565254, F25724, AW384463, AW384462, AI204007, AW384518, AW384495, AA630995, AW384515, AW392814, BE672909, BE156493, R17296, AA055886, BF439599, AA249576, AA772667, AI660862, BE567686, AW384559, AA630973, H77417, AA249786, BF763245, AI291050, AI278942, AA658504, W81238, N98875, AA503728, AI015881, AA261778, AC005915, I89946, and I89945.
HSIEH63	374	100802 7	1 - 757	15 - 771	BF591295, AI223817, BF064033, AI432306, AI732756, AI732256, AI827789, AW270969, AI458391, BE826171, AI820678, BF062424, AI734150, AA487683, BE645984, BF002863, AI073913, AA487468, AI521059, AI906906, AI906910, AI905072, T94936, AW015443, BE075729, BF512129, AA708803, AI810047, AC004993, and AF106066.
HPASD51	375	100807 1	1 - 819	15 - 833	AW753589, AW959236, BE742519, W32940, W15186, N73147, T82084, AA294934, AA211695, AI905700, BF032776, AA354566, AW837086, AA468796, and AC007655.
HCOQH27	376	100815 4	1 - 2570	15 - 2584	AL536332, AL515984, AU125142, AA639765, AI281923, AU125056, AW953648, BE734342, BG167105, BE794775, BE729038, BG260021, AI372989, BE729258, AI720031, BE677682, AW088074, AW300735, BE789911, BF206718, BE408591, AI768419, AI768875, BG027265, AU135162, AA482024, AI745443, AA514479, BE046393, AA627864, AI928477, AA528026, BE391197, BE395201, AA846720, BE391155, BG166973, AW104771, BE741552, AW673933, AI017373, AI515985, AA527494, AI215852, AI871626, AW205622, AA045396, BE390376, BF111620, AW612025, AW291747, AW295357, AW087156, AA722864, AI694451, BE076330, AA574156, W07767, BG001290, AI613494, BE515246, AI630897, AW959218, AA866004, BE671294, BE778573, N21002, BE503277, AA436970, AA577399, BF087009, AA485992, AI609811, BE567267, AW594105, BE745288, AW614636, AA987612, AI373242, AA595033, AW602847, AA908276, AA442981, AI261446, AW271584, BE277529, BF224222, AI858763, AW577571, AW297117, AI914132, AI086874, AA946951, AI864703, BE675612, AI365469, AI089624, AA417570, AI205853, W76670, AW779982, AI797948, AW975076, AI801899, AI654944, AL134914, BE275008, AA045080, AA315298, HI7040, BE731460, BF868517, AA281453, W80506, BE729487, C06206, AA458469, W72604, H85386, AI261797, BE348343, C05666, AV742478, AW951164, AI500450, BE774706, BE791627, BE796924,

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HNTBU30	377	100817 7	1 - 4084	15 - 4098	AU125982, AW953485, AU125447, AU124785, AW001101, BG110603, BF974285, AL040867, AL040866, BF725360, BE868091, BG104583, AW090092, BG121189, AW190132, AI355864, AW889900, BE378250, AL041116, BE548940, BE256037, BF941323, BF034153, BE547709, AU132530, BG106299, AI651097, AI359516, AW080364, AW383973, AL524978, AW362784, AW753817, AI148869, AI393562, AW675581, AA456283, AU149111, AU132763, AU154232, AU149535, AL046765, AU154467, AA400563, AA706610, AW004969, AW836789, AW836786, AA454671, AW373589, AU154038, AI797535, AI367629, AA400150, AA313215, AI018014, AI288449, D53070, AU148577, AA535371, AW836788, BE813630, AW363230, AA029231, AA029232, AW026702, BF887882, AA453842, AA649925, BF887870, AW605323, AA400176, AI094511, AL040652, BE855545, AW937579, AI421670, AI423472, BF753305, AA233312, BF357897, T09488, BE873172, AA683594, AW628747, BF848580, AI371901, R18421, D53589, AA400392, AA586607, AI453237, BF590559, AA227274, D53194, AW999617, D52887, AA514956, D53211, AA233313, AI905503, AA227283, BE070741, AI683301, T23587, T77686, H91031, BF081251, AI916759, AA322214, BE070726, AA453758, C00385, BE694440, BE938121, D53071, D53128, Z25342, BF081249, AI911435, D53754, AI378143, H90918, AI911691, AI272899, H88808, AW754123, AA916908, AI200242, BE070582, AI270551, H89032, AI424142, BF332451, AW580296, AI955188, AW295174, T09487, AW072241, R42483, R38392, BF842266, AA249047, D53193, AW602313, AW857035, D53127, D53210, AW611973, D53588, BF357733, AI910768, BE858745, BF194823, AI905504, AA005312, BF378122, BF820885, AI307564, AI818299, BE814287, BE814349, BF334589, BE814606, BF378140, AW512399, AW364841, BE825640, AW512554, AB002366, AK024705, AK025689, AK027063, and AF052139.
HCOPZ14	378	100817 9	1 - 1070	15 - 1084	AW934723, H37994, AI498824, H92316, AA426342, AA702719, AI128833, AA994942, BF593832, AA932972, AA808375, AA946572, AA369769, AA594909, AA806051, H20466,



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HODEC78	379	100829 9	1 - 1457	15 - 1471	AA287686, AA207154, AU154168, AA179206, BF959881, AI640238, AU132680, BF194738, BF940404, AW135518, BE742576, AI192959, AI694946, AI523667, AW204593, AW002521, AI356297, AI361894, AI914362, AI300563, AI952850, AI361750, AI768922, AI582698, AI356535, BE772693, BF061364, BE552169, AW013899, H83373, AA018189, BE276307, AW960051, AA749310, BF433855, AA366409, AA769579, H87151, H87035, AI868789, AA464267, AA249429, AI816088, AA471320, BE256470, AW367751, AW391782, BF931655, AI580257, AA101455, BF961680, BE745650, AA973114, U90028, and U90029.
HODEF29	380	100830 4	1 - 413	15 - 427	AW949656, AW949631, AW949643, AW949618, AW949642, AW949655, D80022, D80212, C14389, AW975618, D80166, D81030, D59619, D80210, D80240, AV720211, AW975605, AW966013, AW960454, C14331, D80219, D51423, AV718844, AW966531, AV723927,

D80195, AV699550, AW966075, AW966053, AW966065, AW960553, AV718707, AV719822, AV720878, AV718692, AW978634, AV719324, AW949653, AW973488, AA305409, AW959799, D59859, AW975621, AW973334, AW966029, AV718938, AV718633, AW973474, AW975613, D59502, AW978661, D51799, AW960465, D80253, D80045, AV718489, AW973307, AW966534, AV718931, AV719557, AV720731, AW959202, AV699447, AW958993, AV722801, AW959136, D58283, AW966022, C15076, AW956397, AW962245, AW973482, D80188, AW966041, AW965163, D80391, D80164, AW973541, AW966054, AW978648, AW966050, D59787, AV719783, D59467, AV719468, AV718800, AW965185, AW965197, D59275, AW965196, AW965184, AV720791, AV720464, AV718770, AW973330, AV720203, AW964756, AV719188, D80043, D80193, D80227, C14429, AW966062, AV718440, AV724520, AV720028, AW959597, AW959628, D57483, AW960473, AW965177, AW959570, AW949654, AW973485, AW965175, AW960564, AW958992, AW959062, AW964477, AW956434, AW964488, AW949641, AW962082, AV699927, D80366, D59927, D80196, AW966059, D59889, AW973447, AV699746, D80024, AV700889, AW964737, AW959582, D59610, AW949629, AW949645, AW949657, AW966043, D80269, D80038, D50979, D50995, AW949646, AW949658, D51060, AV721386, AW965158, AW949633, AW949632, AV701004, D80378, D80241, AW966023, AW753053, AV720812, C14014, AV723097, AW949630, AW959469, AW966030, AW960504, AW960532, AW975623, T03269, AW966032, AW752082, AV718530, C75259, AW960570, AV719049, D51022, AW178893, AV700229, AV720533, AV699682, AW179328, AV699669, AV720654, AW965176, AW177440, AV744690, AW960474, AV742001, AV742667, AV701125, AV701335, AV701166, AV742430, AV701149, AA305578, AV701043, AV701332, AV701017, AV701248, D80134, AV742048, AV701431, AV699866, AW964468, D80248, AV720150, AW973490, AW966386, AV645389, AV645344, AW964532, AW966397, D81026, D80949, AV701130, AW973465, AV701419, AW378532, AW964766, AV701154, AV701422, AW962395, AV719628, AV681510, D80251, AV681491, AV699652, AW178775, AA514186, AV720616, AW966049, D51250, AW951169, AW949620, D80133, AW369651, AV700159, AV701443, D80064, D80268, AV720755, AV699479, AA514188, AW966560, AW966368, C14298, AW753041, AV645343, F13647, AV742022, AW178762, AV701357, AR018138, A62298, AX033851, AR070327, A84916, A62300, AX027925, AJ132110, AX047063, AX047064, A67220, AX021518, D26022, X67155, AX035434, A25909, Y17188, AR008278, D89785, AX020191, A78862, D34614, AJ302649, AX020190, AF058696, AB028859, AR077702, AX047062, D88547, AX028130, AR092424, AR087649, X82626, AJ294956, Y12724, AR025207, A82595, A94995, AF260572, AR060385, AB002449, AR008443, AR074545, AB012117, AX015396, X68127, I50126, I50132, I50128, I50133, AJ287395, A85396, AR074141, AR060138, AR066482, A44171, AR088705, AX042372, AR066488, AR016514, A85477, I19525, A86792, A45456, A26615, AR052274, AR074139, A43192,					
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HODFB71	381	100830 7	1 - 2721	15 - 2735	AU120186, AV685205, BE745578, AW341085, AI813997, AW075717, BE879613, AW867043, AU128403, AI890853, W95819, AV699386, BE871865, AW207613, BF753636, BE841070, BG153422, AW842415, AI860247, AW009804, AW965308, BE263478, BE350007, AV650178, AW855840, BE645948, BF244293, AW387603, AW387588, AW387570, AW593809, AI813990, AW387594, AI123331, AI814498, BF930287, W95812, AI027130, BG058688, AW297937, BF439051, AW953145, AW581872, AW387567, BE897145, BE894405, AW387565, AA683545, AA514682, AI912084, BE707577, AA284269, BE892060, N25435, AW387551, BF224192, AI801414, AI333144, AW387589, W93061, AI792762, BF897938, AI921027, N39823, AI700761, AI630416, AW613975, AW387543, W52833, BF346511, BF446460, BF433036, AU146326, BF806592, BF436925, AW194002, AA416940, AI539420, AA609176, AI803042, AI688409, N36974, AI095658, AA625154, AA454670, AI015532, AA532391, AI801045, AW304056, AI078810, AW515831, AA313278, AI143830, BF434547, AW073517, AA164477, AW300683, AW387511, AI246195, AI126120, BF194737, AI204238, AI224979, AI363320, AI934406, AI828474, W32859, AW191965, AI452492, AA326596, AW387659, BF887732, AI420557, BE698600, AW512903, AA256049, BF849038, AW806880, AW235154, BE874184, W77847, AI400008, BE841041, BE467240, AI830985, AI819550, AA609278, AV688552, AI340483, BE937015, AA773239, N20374, AA047705, AI273578, AI090700, BF957505, W32413, N39416, AV699803, AI224389, AI439451, AI225075, AI312377, AV706867, AW609073, AI624708, AW444879, AA705899, AA169495, AA235411, AA418233, AU157570, AI076652, AW504319, AI433744, AI159961, BF241608, BE167847, AW841184, AI383240, AI935502, AI435339, D80852, BE047423, AW963146, AA918609, BE843310, AW820003, AV683152, W60585, AI630381, AA662503, AA164478, T33091, BF085221, BE004440, AW366124, BE160282, AI131034, AI675203, AW841228, AW021700, AA626105, AA470040, AI815749, AW581865, AI263359, BF850458, BF591953, AA994256, Z43339, N26670, AA541443, AI475319, AW609556, AI244156, BF849414, N92397, AI267587, W01875, AA886220, W24664, AW237704, AI254748, AA628384, AW020806, AA707127, AV656105, BF924070, W24714, AI040523, AA169701, AW163817, AW576279, BF849416, AI225071, N69026, BF922788, AV686309, AW866508, Z46156, BE768257, BF801569, BE710784, R43868, BF842346, AA854079, AI656170, AA324005, AA229840, T95094, AA324001, BF842366, AA047672, Z39414, BE082315, AI167468, AI300698, AA320833, AA994140, AW382298, N39669, W72123, AI183682, AI678525,

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HODEF78	382	100831 4	1 - 538	15 - 552	<p>AW872474, AV723927, AV720211, AW966013, AW966053, D81030, AW975618, AW959597, C15076, AW975621, AW949642, C14389, D80212, D80164, AV719468, D80022, AW978648, AW949656, AV718692, D59502, D59927, AW978634, AW966050, D80195, AW960465, D80045, AW949631, AW949643, AW949618, AW966034, D59467, AV719783, AW966534, AW966065, AV720464, AV718800, D80253, AV718707, D80166, AW966531, AV724520, D80391, AW949654, D80193, AV718844, AW966041, D59619, AW959570, D80210, D80240, AW965185, AW965197, D80043, AW966022, D59275, AW966075, D51060, AV720791, AV719188, AW966029, D59787, D80196, D80227, AW966062, D58283, AW949641, AV699927, D80038, AW959799, AW958992, D80366, AW973334, D59859, AV719822, D80219, AW960553, AW965175, D51423, AV719324, AW959062, AW964477, AW978661, D51799, AW949646, AV718489, AV720203, AV718770, AW973307, AW959202, AV718440, AV720028, AV718633, AW959628, AW965177, AW975605, AW949658, AW973485, AW965184, D80269, AW973541, AV718931, AV719557, AV720731, AW959582, AV699447, C14331, AV722801, AW973474, AV699550, AW964488, AW965163, AW973488, D50979, AW964756, D80188, AV718938, D80024, AW949655, AW960454, AW973482, AW958993, AW959136, AW956434, AW962082, AW949653, D57483, AW965158, AW966043, AW962245, AW965196, AV718530, D50995, AW949630, AW975613, AV723097, AW964737, D59889, AW960473, AA305409, AV720878, AW960564, D80378, D59610, AV720812, AW949629, AW949645, AW949633, AW949632, AW753053, AW949657, AW973330, AW973447, AW956397, AV721386, AW966059, AV700229, AW960532, C14429, AW966023, AV699746, AW959469, AV720150, D80241, AW960570,</p>

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HODEL83	383	100832	1 - 520	15 - 534	
		4			
HHPH76	384	100832	1 - 1578	15 - 1592	AI971626, BF940710, AI870763, BF447174, BE676274, AIS82352, AI431882, AI161166, AI971645, AV693733, BF000296, BF594148, AI222731, AA937784, AI299178, AI394300, AI439546, AI362722, AI345977, AW072003, AW028669, AA632194, AW205947, BF057452, AW206327, AA972757, AA587064, BE712791, N90856, AI350107, AI298077, BF058455, AW134661, AA825270, N90867, AW028686, AW079385, AI147124, AA460705, BE551298, BF736655, AA746018, BF732395, W16558, AW007772, W16555, AI161086, AI149235, AW340546, AW204428, AI161084, AA988853, AI762633, AA904256, BE715859, AI368507, AI025216, AW137922, AA808302, AA808603, BE715826, BE670470, H86812, AA639423, H86876, AI700294, AA887551, BF063604, T55756, BE671028, AA853813, BF115406, AW300426, AA858288, AA878930, BF590909, AA853812, AA639424, BF967749, AC006230,
		5			

HBGBE52	385	100832 6	1 - 769	15 - 783	AF019386, AF019385, AF177430, and AJ388534. BE002704, BE065136, AW152446, AV734696, T62861, AA584449, AW370854, AW295305, AI539492, AI093863, T62711, AA663693, AA808792, AW371354, BE138955, AI343194, AI251970, MI8740, M25718, and UI3369.
HBQAB30	386	100832 7	1 - 779	15 - 793	AUI21386, BG024628, AL523997, BF794753, AUI37819, BG177391, BG176653, BG259088, BG106999, BG107310, BE265326, BF305474, BF347603, BF796967, BE018909, BE018889, BF797739, BE167696, BF981741, AL039474, BF350360, BE244700, BF869380, AA651690, BF183251, BE778225, BE740869, BE271603, AW474216, D58450, AUI24160, AW361236, AW466946, BG107057, BF772633, W27829, AU076945, W26115, BF759430, AW664187, AA570434, BF675704, L12579, M74099, U68542, L43505, AB041595, AC005103, AF047825, AC005086, AF004225, X75013, AC006457, AC002978, and U25750.
HLHCB31	387	100833 2	1 - 2032	15 - 2046	BG250587, AV734294, AW949920, AUI25757, BF529108, AW952796, AA443300, BE673024, AI335961, AA738061, AA443433, BE938159, AW513187, AI860346, AW009354, BE294816, AUI49357, AW058419, BE042809, BG150358, W40461, N95557, AA418263, AA418366, AI183756, BF983116, N52313, AA620306, AA884462, AI001006, D63258, BE274198, AI400765, N93959, BF886486, AW262034, AW183978, BF765839, AUI38365, BE870250, AW183285, N75083, AA377749, AW235381, AI280350, R49967, AI393230, AA249125, BF509213, BF886848, BF887480, AI659872, AI869768, R88859, BF223596, R47440, R47819, BE296217, BF755474, BE707786, AA448501, W24950, AI701222, BF912737, BF757860, H21363, C18194, BF515599, BE168666, N87076, AA339171, D30872, AA091617, AA704660, BF692008, AW138128, A46722, D85510, D86331, E16655, and AF144759.
HPFDV51	388	100833 5	1 - 917	15 - 931	BF508974, AW965115, AI630839, AI741643, AW072035, AW268897, AV723999, D62666, AW072761, AI016072, BF512461, AA344181, C16744, D62943, BF437674, AA344606, AA905880, D62570, AW965114, W60522, F05944, AI915081, AA307598, AV754716, AL042630, AA689351, BF448904, AA429481, AW392414, AI124706, BF883138, AA603400, AW732205, BF769787, AA610381, AI137946, AI471455, AA550959, AW502873, F36200, BF766147, AA132912, AV728369, AI687343, BF742657, H86221, N91711, AI624379, AI282629, AA642809, AV764406, AA828153, AA946848, AA084230, AA578832, T93109, AA228778, AA524800, AI356440, BE868437, AW949694, BG026818, BG026893, C14480, AA508036, AI754037, AA525293, AI568659, AA610826, AI185394, AV743799, AA362349, AI918419, AV734149, AA678950, AA135761, W39287, AUI50583, AA654778, T05354, AA385775, AA484892, AA935291, AA468923, BF737749, AA828442, BF853968, AI537800, AI049701, T06828, AW515219, AA666215, AV729669, BE676915, AA483731, AW511778, AA525331, AV764259, AA728861, F26072, AA445951, AW850230, BF913900, AA483034, AW151247, BE143664, AA533054, AW979295, AA371410, N71619, AA483483, AA832016, AA831801, AV762430, AI246996, AA364082, AA598663, AW468349, AA805960.

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HTEDY04	389	100833 6	1 - 1291	15 - 1305	AC021752, AC005342, AC006561, AC011469, AC007639, AL022240, U78027, AC005741, Z81314, AC006146, AL391839, U48471, AC005081, AL136369, AC005911, and AC004968. AI927477, BE670723, AI948965, BE466314, AA987287, AI095479, AW957242, AI199425, AI128097, AA448092, AW972332, BF434529, AA447554, BE045361, AI369302, AI361389, AI923806, AA435678, AW972328, AI660309, AI080255, AA054012, N70603, AA837761, AA448073, AW339432, N55490, AA393640, AI863621, W04922, AA447593, N69823, BF361414, N76977, AA057377, AI216708, AA448537, AW243130, AA036760, BE084121, AI675513, AI350467, AW016860, AI265822, H22783, AA508054, R14614, AA383086, BF361412, H80683, T64743, AA379733, AI038561, AA370797, H41174, AA370796, H80646, AA746313, BE791070, BG012707, AI268695, AF006386, and AL034379. AA861406, BE160342, AA654837, BF814002, AW877546, AA244041, AW157413, AU143973, BE061421, Z93403, Z92545, AC005326, AC004552, AL360078, AL021406, AL049781, AL136442, AP000515, AL133500, AC006313, AL355272, AL121776, AC005993, AL117340, AL109800, AK021450, AL109853, AC008873, AP001724, AC087085, Z93928, AC016623, AJ229041, AL133514, AC004388, AL049646, AL136981, AL157931, AF036938, AL121997, AL008629, AC007068, Z73986, AC010198, AL353573, AL121950, AC009241, AC004949, AL008639, AC006461, AC005538, AL096867, AC006157, AL354685, AL136133, AL023883, AL033375, AL360157, AC009430, AC005018, AC003670, AC026398, AL160237, AL158141, AL137118, AC006257, AC008127, AC008083, AC008279, AC009308, AL135960, AJ131016, AC007282, AC004554, AL035423, AC004055, AC004911, AL391684, AL035454, AL121841, Z85987, AL158064, AC016607, AC004982, AC020603, AL391666, AL163280, AL391644, AC073572, AC011890, AL359641, AL353582, AL031054, AF002223, AC022274, AL033521, AL132773, AC004052, AC008818, and AC073325. AA306966, AV650072, AV650129, AV651901, AW248211, BE251055, BG257405, BG142261, BF796726, BE252748, BF970072, BE253394, AA587676, AV727695, BE566483, BF979560, N31759, AV689371, BF979663, BF530154, AA379229, AW963917, W32392, BF185241, BE618517, AL523961, BF681293, AV750140, BE748280, AI092258, BE783649, AA281646, BE164637, BE781790, AA523844, AA333474, AL524527, AI733910, H00017, R47258, BE972575, R47244, AA375463, AW304314, AW801668, AL524526, H00071, BF988262, BF683074, BF182646, AA664453, BE842637, BF185407, AI419252, BE388376, AI698340, BE857220, BE673426, AA367629, N80921, AA026486, BE551157, C02600, BE743952, BF694306, AC011477, AC007204, M61870, AC010329, M61866, AC011482, AC008554, AC010636, AF070651, AC008739, U35376, AC024563, AC073539, AF038951, AC003973, M61873, AC078899, AB040906, AC006539, AC008463, AC011494, U37092, AF242519, and U37098.
HODEG13	390	100833 7	1 - 516	15 - 530	AA777763, AI888037, AW954039, AI499427, AI569758, AA573906, AW305026, BF060656, AW778946, BE466396, AW511528, AW069026, AW953867, AW516094, AA526290,
HHPFK16	391	100834 5	1 - 461	15 - 475	
HARAL81	392	100834 9	1 - 809	15 - 823	



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HFTAU42	393	100835 0	1 - 1705	15 - 1719	FI1519, F09180, AW275719, T39173, BE146711, AI064864, AL041706, BG059523, AW958945, AI090377, BE146744, AI446464, AW327624, R23873, BF918590, AA456937, AA831426, AW575605, AV755070, AA838140, AI811460, AU152317, AV762050, AA857486, AV760466, AC005004, AL080243, AL096701, AL135798, AC005730, AL353804, AC008733, AC002449, AC012155, AC005288, AP001717, AL021407, AC008928, AC004552, AP000045, AC007279, AL121899, Z83822, AC005324, AC008277, AC012442, AP000113, AP000300, AC010269, AC004890, AC004955, AC010609, AC009311, AC084732, Z85999, AC005065, AL050348, AC004856, AC006345, AC013734, AL121578, AL023283, AL078601, AC007546, Z84719, AP000359, AL136984, AL121886, AC011442, AF207550, AL157384, AC007365, Z84469, AL133453, AL163248, AL158830, U63630, AC006077, AC004762, AL035427, AC010289, AL035681, AC006285, AL157878, AC007850, AP001346, AC009179, AC011479, AL136094, AL034379, AC004987, AL357519, AL121905, AP000556, AL031228, AC022078, AC007956, AL049795, AC005102, AC002395, AL353701, AC016025, AC005081, AL034429, Z68226, AL138836, AL133163, AC008134, AP000255, AL022476, AC004963, Z69705, AK024182, AL450224, AC073148, AC009116, AL109804, AC007679, AP001670, AP000555, AL133174, AC004754, AL121928, AC023490, AC025593, AC007845, AL450226, AP000557, AJ400877, AC008102, AF165926, AC006141, AP000135, AC005539, AP000031, AP001666, AF134726, AL137039, AC005037, AL021391, AC018719, AL136980, AC007954, AC004859, AC020906, AL049758, AC008770, AC058791, AC006120, AC073898, AC006064, AC006483, AF001552, AP000502, AC006561, AL136300, AF045555, AP001712, AL035249, AC005522, AJ295844, AC006994, AC007686, AC006273, AC006557, AC005599, AP000105, AP001714, AC003663, and AC005971.
HETDA81	394	100835 8	1 - 363	15 - 377	AA164850, AI347829, AA164851, AI539038, W87820, T91042, AW103512, AI208103, AI538025, AW959576, BF513984, AI886882, AI827139, AW571976, BE565889, AI557283, AI565180, AI673742, AA827331, AA164745, AW665930, AI862333, BE971469, T83877, AI590154, AW966053, AW975618, AW959628, AW966531, AW978634, AW966534, C14331,

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HODEI92	395	100835 9	1 - 1064	15 - 1078	AW970780, AA292507, AA131133, AW009250, W93698, AA443637, BE326280, AA815396, AA524536, AI131316, AA716422, AW167811, AI989794, AI204695, AI206303, AA235322, AW102822, AA195671, AW104260, AI686439, W93749, AA131081, AA195672, AW367192, AI254818, AW352181, AI611923, AW367188, H48933, AX016191, AX016189, AF088074, AF190501, and AX016183.
HODEB58	396	100837 2	1 - 459	15 - 473	AL157628, AU123801, AW502001, AA247157, AW996782, AW996780, and D86985.
HODEG86	397	100837 9	1 - 634	15 - 648	AC008750.
HODFA57	398	100839 6	1 - 627	15 - 641	AL034561.
HODFB31	399	100840 1	1 - 606	15 - 620	BG036348, AV688303, BF243944, AU125772, BF967928, AL355112, and AK022722.
HTEMP79	400	100840 6	1 - 1003	15 - 1017	BF979841, BF979305, BF979296, BG150564, AI341338, AA910069, BE503224, AA910067, AW340554, AA868285, AA861100, AA917718, AA129040, AL038500, AI221381, AU137865, AU120146, AU125654, AU131460, AU135444, AU120558, AU131110, AU139759, AU138029, AU139592, BE893418, AV714298, AW239516, AV713810, AU135947, AV715665, AU129590, AU138204, AL038186, AU134855, AU134811, AU117756, AU139562, AU134643, AA205818, AU139871, BG168497, AU129389, AI239750, BE613687, BE396928, BF967070, BE618106, AU136621, AA912915, AU126929, BE890856, AU135184, BE907987, AU127952, Z99424, AU134720, AA206189, AW996933, AU136524, AV724976, AW842650, AW842596, AV715554, BE892925, AA205550, AW842656, BF966532, AU119441, AV721305, AU118998, AW842593, AU118558, AW842553, BG152681, BE542111, BF701180, BF671574, AW451940, AI149958, BF512132, AW590832, BE781825, BE568730, AW590222, AU136337, BF574935, BF575983, BF969659, BF572912, AA315719, AA224536, BF671221, BF507657, BF244704, BF222463, AU136454, BE566974, AW390941, AA333736, BF976004, AI637727, BE839049, AI628722, AW385599, AI205669, AA232305, BE504056, AA224264, AI969344, AW842657, AI651532, BF130108, BF673027, AA401546, BE620495, AW952726, BE894917, BE782983, AA769771, BE622263, AA102022, BE812973, AA605007, BF923140, BE177709, Y08713, AV652507, BE243891, AA317641, BG251796, R86883, W40563, AL038869, Y08710, BE177607, BG027535, AA911682, AA400010, T31615, AW860317, BF512166, AW628844, AA215844, AA609369, AA327908, AI205700,

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HOFMU69	405	100901 7	1 - 1428	15 - 1442	AV684729, AW028063, BF966613, BF183036, BF513083, BE856253, AV725683, BF967767, BF476032, AA037314, AW025205, AW118083, AV654724, AI553845, BF739803, BE874632, AV721664, BG032797, BE835358, BF107095, BE835421, AI936938, AW629496, BF112039, AI627928, BG036935, AI283403, BF978144, BF240167, AW469390, AI805469, AI027476, AA266654, AI818906, BF977973, AI421269, AI291304, BF081332, AW074838, N57371, AW001973, BF515401, BF370065, AA970745, AI102090, AA463457, AA923662, AI309195, AA568740, AA972072, AI276170, AI718178, BG058506, AI384119, AW182398, AI002643, AI277271, AA937950, AA905140, AI290395, AI304767, AA731671, AA934048, AA311659, AA610079, AA907546, AI694431, AA854770, AA905147, AA056233, AA804207, T87107, N31503, AI358287, AA055922, AI221597, AI041581, AI204193, AI806731, AI554900, AI268390, AV654948, D62387, AA099343, AA258407, AI809900, AA988126, AA872540, AA890504, C15485, AL119457, AL119399, D62335, AL042382, AL042544, AL079794, AW877209, BG164558, AL079741, BF925729, BG168696, AL119511, BG032704, AV681630, AV682252, AI627988, BG166654, AW149925, AW983783, BF970449, AW161156, BF814527, AI269862, AI537677, AI340603, AV734329, AL119863, BG029667, BF970990, AI796743, AI536685, AL514129, BE964614, AL037081, AW983829, BE047852, BG260287, AW051258, AV753074, BF814420, AW029611, AI564719, AI500061, AI537244, AI677796, AL040241, BE885353, AI698391, AL514879, AL120853, AW169671, AW051088, AI475371, AI926790, AI591420, AI889376, AI932794, AW983703, AI524671, BG260037, AW983691, AI611738, AI619502, AI632408, AI802542, AI889189, AI288305, AW118518, AI270183, AI570807, AI635492, AW026882, AI635067, AW050522, AI923370, AI281772, BF812960, BF812938, BF970652, AI921248, AV650703, BF827575, AI620089, AA449768, AI433157, AI702073, AI933589, BF812961, BG109270, BF107577, AI478123, AL037104, AI633125, AI915291, BG031815, AI582932, AV757737, AI890833, AI468872, AI521560, W74529, AL037454, BE045182, BF885081, BF904265, BG179993, BG257535, BF970768, AI917252, BG110517, BF987104, BG168646, AI797908, AI521012, AW117746, AV743962, AI274508,



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HSKNP59	406	100909 5	1 - 960	15 - 974	BE799721, AA480375, BE719132, BE719128, BF841831, AI251419, AI270846, AI308612, AI270979, AA953100, AI340555, AI250202, BE041953, AI309146, BE043759, BE043282, AV706824, AW023232, AW020543, AV702772, AV701946, AV726010, AV696790, AV702021, AV726088, AV728872, AV727510, AW960655, AV709232, AV726026, AV705981, AV709101, AV702790, AW963750, AV705433, AV702728, AV705873,

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HETBR71	407	100934 3	1 - 1221	15 - 1235	AW006970, BE879571, AW024469, AV721459, BE540489, BE536564, BF965299, BE881422, BF664939, BE542653, BF516238, BF681569, AA526371, AA526589, AA526389, BF106316, AI799491, AI498256, AI097048, AA708799, AA043221, AI738993, AW161297, AA451969, AI004196, AA530865, AI355638, AI215599, AA043222, BF446574, AI536604, N50826, AA452260, AA833821, AI695010, AW157800, AA526474, N48253, AI889875, AW263944, AA040895, AA478480, AV682170, AI569738, AI269131, AA993786, BE817977, AA042971,

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HE2ES17	408	100934 9	1 - 1483	15 - 1497	BG111492, AW439786, AW073883, AV719548, AV706176, BF132037, AU143895, BF671635, AU152574, AI925143, AI018024, AA460521, AU152977, BF593938, AI277889, N35236, AI911015, AV720311, AV720287, AV720565, AV719404, H99645, AA983864, AI539561, AA781828, AI140736, AW474242, AI539533, AI084377, AI367955, N44901, AA860474, AW510585, AI051782, T80249, AI276390, AA460520, AU116935, AA682234, N66333, N66141, AA214431, N98663, BE244676, R38792, AK000874, AF078932, Y10495, Y10496, AF203441, AF203437, and AC007546.
HELHM06	409	100936 2	1 - 336	15 - 350	AW327723, AW674864, AL516842, BE882980, AL532515, BE799552, BE896851, BF984921, BE396422, BF826008, BE799625, BF826769, BF218169, AU077063, AV687313, L14076, and AC004236.
HE2AG50	410	100936 5	1 - 1794	15 - 1808	AI453045, AL528826, AA856613, AI912949, AI739056, BF966732, AI986110, AL519448, AW613375, AI379787, BG032945, AW962214, AI914227, AA582587, BF590115, BF514600, BF680870, AI587526, AI867178, AA505399, AA683551, BF431318, AI078274, AI928459, AU144502, AA766846, AA815041, AI281397, BG170712, AA232560, AW051473, AA523261, BF576501, BF108639, BE242521, AW951858, AI354235, AL039035, BF572328, AI301459, AI126940, AA326462, N70794, AI281454, AA651932, BF574933, AI826813, AA278487, AI349091, AI197245, BF672052, AI700825, BF694355, BF668070, BE247045, BF673072, H43036, AV659423, BF671763, W67786, AI370310, AW631375, W67845, BF966298, AL047459, BF574129, F03536, AI301406, AI630671, BF693378, AA367445, T28398, BG057778, BF790818, BF574845, BF571244, AI525002, AI825974, BE174789, Z20344, BF575895, C15076, D80522, D59467, D59787, D80164, AV701004, AW975618, AV699866, AI569419, AW964532, C14331, AV718530, D81030, D59627, AV738340, D80366, D80258, AV700159, AW966330, AW753053, D81026, AW973541, AV699550, AV718489, AW377671, AW964468, D80064, AI557751, AV718692, AV718681, D50979, AW973445, AW966029, AW959628, AW958993, AV724520, AV701422, AV720035, D80043, AW959799, D80133, AW960465, AW960553, D80248, AV720878, AW966531, AW978634, AV741191, AW966053, AW973334, AW958992, AW965163, AV720533, AV719783, C14389, AV720464, AW966059, AV720791, AV718440, AV720028, D58283, AW966022, AW966041, D59927, D59859, AW949632, D80022, AW973485, D59275, AW949641, AW965177, D59502, D80391, AW965158, D80253, AW966030, AW964756, AW966043, AV742996, AW960473, AW959469, D80132, AW965196, AW965184, AW966534, AW966075, AV718844, AW966065, AW973482, AW966054, AW975621, AW962082, D51423, AV719822, D80196,

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HE2ES61	411	100938 8	1 - 1258	15 - 1272	AF075305, AW439817, AW439844, AI493164, AA203275, BF690753, AA533476, N31463, AI435348, AA838687, AI334356, AI282866, AI823812, AV719236, AA507026, AW138875, AW236781, AW996877, BF445452, BE673101, AA035519, AW118716, AA219612, AW194890, AA737528, AA453621, AC005034, and AB026911.
HE2SO43	412	100939 8	1 - 1107	15 - 1121	BF345442, BE745400, BF002361, BF591185, AW006311, AI740645, AW972577, AW190738, AW872945, BF590839, AW515791, AI337338, AI623327, AI160758, BG055059, AI146399, AI955183, AW130008, AI380399, AI375011, BG222460, AI539558, AI217110, AI371688, AW615545, AI360696, AW004738, AA885332, AA506508, AI264485, AI356161, AA280731, AW873997, AI479723, AI471972, AI077764, AI356162, AI472175, AA557465, AW007779, BE463808, H29892, AI240814, AI521518, AI356160, BE827863, BF215793, AI419525, AW248081, T23536, AI424657, H17888, BF434314, AA877639, R96881, BF000404, AI934283, BF510867, BF588477, R96880, H19299, T88997, R72799, AI370746, BF806860, D45762, AC006547, AC000083, AC000097, AK025106, X56044, AC003060, and AC012526.
H1HC107	413	100940 3	1 - 517	15 - 531	W31456, W52407, AC005410, AC020744, AL445249, AL132821, AL035652, and AC016925.
HTTR65	414	100941	1 - 461	15 - 475	BE314959, AW411287, AW411286, BF304101, BF976822, AW411455, BF339991, BF344411, BF339991,

	4					BF571534, AW367868, BF809505, W93139, AA010506, AF095890, D12765, E06025, U35622, U18018, and E06024.
HPFCV71	415	100945 3	1 - 661	15 - 675		AW028647, R31337, BF892076, BF892569, AW816131, BF988799, BF993589, BF990226, AA224815, BF773356, AV732057, BF992718, AV730440, AA565911, BE464585, AW301855, AI281622, AA523719, R68706, AA640823, AW023376, R31595, AW835334, AA728954, BF992721, AA362440, BF992720, AA640563, AU147781, AA935827, AI318304, H16875, AW968193, AW850985, AW162314, BF821112, AW162332, BF849123, BE974024, AI268491, BF917144, AA985194, AW407007, AI909640, AA833828, AW953071, BG255923, AI625175, AW572713, AI345146, T47429, AA015948, AI112864, AU146575, BE880448, AW080772, AW157173, AA878955, AW973825, BE246411, BG260565, AA932787, AL537432, BE706737, AL537956, AV720475, F23268, BE312650, AW962187, AA984920, AF178081, AC006077, AC010519, AC007619, AC005730, AF023268, AC008745, AC003693, AC016027, AC004797, AC016830, AL163279, AP000031, AF121781, L78810, AC008635, U89336, AL080243, AL022315, AJ006345, AC034186, AC010091, AC022404, AC026161, AC004973, AC083863, AC005484, AC005049, AL021807, AC005519, AC005759, AL031848, AC007899, AL162424, AC022150, AC006006, Z83844, AL162505, Z97056, AP001714, AL031281, AC010463, AC005057, Z49155, AP001629, AL121928, AC005763, AL133458, AP000556, AL136137, AP000552, AC000353, AC010422, AC023490, AC005668, AC006345, AL136179, AC004448, AC009194, AC005412, AL031588, AJ009615, U85195, AL078460, AL135787, AE000658, AC005822, AL139342, AL035071, AL008582, AC005058, AL122001, AC018644, AL009179, AC007384, AC004634, AL031767, Z93015, AL049838, AC019210, AC011475, AP001748, AC005288, Z98036, AP000558, AL109797, Z84477, AL121653, AL049872, AF205592, AC000134, AC019183, AC073898, AC006057, AC005620, AC010311, AL035658, AL133240, AC008276, AC011480, AP000557, AC006285, AC005231, AL033378, AC005066, AC010458, AC011811, AC022148, AC005516, AC005844, AL022165, AL109935, AL353748, AL117258, AC005940, AL133353, AL391259, AC010527, AC004254, AF205588, AL158040, AF146367, AP000131, AP000209, AP000248, Z99716, AL035417, AC004087, AC004552, AC008733, AC010618, AC007969, AC011493, AC007386, AL023575, AF088219, AC005911, AL136120, AC004234, AC005043, AC004890, AC026776, AC005829, AC006337, AL117381, AF134726, AC004638, AL133227, AC011465, AC007956, AC007226, AC011500, AL035495, AC018751, AC009516, AC005913, AL022238, Z74739, AF165142, AC008543, AC006023, AJ277546, AC004024, AL031228, AL135844, AL161672, AC002107, AP000228, AP000140, AC005052, AP000088, AP001694, AL033529, AF111169, AL136418, AC012309, AL121586, AC004915, AL079342, AL136172, Y18000, AP000703, AC004991, AF196969, AC005695, AL138960, and AL122014.
HCABR46	416	100947 9	1 - 869	15 - 883		AW131143, BF343353, AW166982, AI922723, AA769108, AW084960, AI076939, AW189314, AI971285, AW190185, AV701548, AW103994, AI885578, AW167989, AI859425,

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HCRCB80	417	100948 2	1 - 1000	15 - 1014	<p>AL137429, AC006019, A65336, AF202636, AL080147, AR038747, AC004485, AK026867, AL389939, AB050534, and AL080227.</p> <p>BE270790, BE383962, BE260603, BE727942, AV714102, AI905945, BE260907, BE728699, BG118937, AU140029, BF663274, BE730560, AV715039, BF306742, BE872592, BE884864, BG119519, BG254547, BG033397, BE897234, BE906383, BF213989, BE890780, BE886666, BE729068, BF664061, BE893840, BE252245, BF669215, BF528849, BE905149, BE891512, BG104225, BF207769, BE728783, BG248372, BE388079, BF038595, BE748126, BE870266, BF130113, BF792932, BE894590, BE892383, BE384387, BE743362, BE564177, BE891634, BE733011, BE547370, AV717679, BF102513, BG255970, BE266671, BF0226737, BE259976, BE385310, BF026593, BE386351, BE407399, BE277240, BE727813, BE385159, BE409533, AW732973, BE386494, BE274479, BF026137, BE386183, BE296137, BE745173, AV714054, BE730829, BG104294, BE777522, BG104459, AA428176, BG036685, BE222997, AV714339, AI557263, AA700878, AI743584, BE262578, AI743198, BF685382, AI066524, AI188543, BF683073, AV708703, AI589860, AV702432, BE728260, AA868378, AV737768, AI743131, BF675084, AW007795, BG164621, AW025357, BF114637, AW025366, AW085493, BF245736, BE677843, AI497772, AA868669, AV762308, AA947862, AI191406, AW131703, BE613563, BE388033, BE385788, BE730013, BF055482, BF125638, AA885890, AI215751, BE277311, BE390926, BE280636, AA903664, AI241112, BE336882, BE743276, BE270857, BE408649, W58599, AV727089, BE277287, AA775621, AV712159, AA863101, AV764193, AW327735, BE410530, AI041656, AW157690, BF528185, AI123876, AI352438, AI933151, BE409317, BE262204, AI141088, AI346690, AA009600, BE728126, AI918159, AI087107, AA399235, AI039380, AI494377, AI983614, AL037677, BE736251, AI928560, AI376910, AA307765, AA398088, AI422735, AA757153, BG029167, AA864729, AI378110, AI141147, AA621304, AI472125, BE270990, AA745843, BF132284, AW014199, AA398171, AA747250, AI923809, AI491752, AA824365, BF240874, AA526902, AI014763, AI187061, AI262609, AI131312, AI240782, BG054713, AI310956, AI922166, AA860807, BF972839, AI567441, AA576277, BE392978, AA779522, AW005219, AV756988, AA069652, N92488, BE206811, AA206878, AA114853, AI311910, AI913768, BE271114, AI597888, AA099366, AI185009, AI566146, AW161259, W58598, AI479415, BF684876, AA425147, AA114854, AW966966, AA535597, AA465204, AA457720, BE439813, AA101916, AV752801, AA143170, BG251537, AI741464, AA033922, N81048, AA428702, AI866745, AA179183, BF183167, AA399606, AW732971, AA554347, AA480829, AI041051, AA430631, N28986, N70589, AA706843, R72750, AA150902, AA526082, W23545, AA351710, AA354718, AV740958, AI620955, AI129065, AA716689, R72749, AR052511, D50420, Z83840, AF155235, AF091076, AR052510, AF109906, U95114, L34071, AJ236665, T64803, R05937, R21834, R32145, R32146, R33254, R50537, R55048, H16667, H26603, H77860, H87453, H87615, N42446, W01082, W02722, W86331, AA005253, AA025417, AA029591, AA031801,</p>
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HPMLW78	418	100983 3	1 - 637	15 - 651	AL538180, H47744, BG105704, T28491, BE787797, AA422141, AA127841, BF088491, AA401304, BE707805, AW368612, AW024390, BE063214, AW949504, BE085870, AU119798, AA091414, BE063168, M31170, M86546, M31522, 196217, AF020196, L27453, AF020197, AB043619, AB043620, AJ245963, AJ245962, AJ245966, AF162696, AF313399, AF313401, AF313400, AF313398, and S82001.
HODIK75	419	100984 2	1 - 626	15 - 640	
HODIX27	420	100985 4	1 - 109	15 - 123	AV738340, AV744657, AV744012, AV742732, AV742050, T48593, T26395, AV681505, AV681504, AA585439, AV699103, AV681474, AV681526, AV681486, AV681464, AW955883, AV955403, AW955893, T03269, AV681472, AW963289, AW953750, AV701136, AV701254, AV701435, AA585278, AV701198, AW960162, AW959372, AW955886, AW949707, AW956977, AV701467, AA283312, AV701189, AW960161, AV701301, AV746179, AW949665, AW949667, AV681477, AV681495, AV701472, AV701436, AV701388, AV701297, AW963961, AV699218, AV699144, AV699170, AV699269, AV699229, AV662317, AV742757, AV742025, AV699136, AV662287, AV699123, AV699224, AV662272, AV699125, AV699203, AV699219, AV699131, AV699182, AV699246, AV662247, AV699153, AV699200, AV662257, AA585378, AV742899, AV699250, AV753956, AV662248, AV699247, AV699199, AV699137, AV662242, AV699223, AV699147, AW962627, AV662225, AV701276, AV701320, AV701173, AV701283, AV701471, AV701384, AV662191, AV701449, AV701071, AV701372, AV701088, AV701237, AV701027, AV681462, AV662235, AV701403, AV662218, AV701410, AA585389, AI526112, AV745415, AA585116, D51250, AA585325, AA585329, AV662288, AV699204, AV662268, AV701034, AV701132, AV662223, AV662149, AV701468, AV701030, AV681528, AW962603, AV742733, AV701311, AV699098, AV744949, AV681514, AV681512, AV699156, AV699139, AW951170, AW951316, AV699196, AW962629, AV739506, AV701223, AV699175, AV662289, AA585430, AV743048, AV699197, AV645339, AV701059, AV758536, AV740765, AV681506, AI525306, AV698330, AV692714, AV699129, AV662207, AV699167, AV699119, AV739001, AV662196, AV740192, AV758756, AV662302, AV681525, AV735331, AV701451, AV745948, AV662319, AV746382, AV746276, AV701390, AV681487, AV681523, AV701201, AV753656, AW952650, AV735489, AA585327, AR070327, A94995, AX020191, AR031365, AX020190, AR038669, A30438, AF135243, AB005666, A85395, A85476,



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HODJV85	421	100985 7	1 - 628	15 - 642	W63650, AC004975, AR077702, A82595, AR060385, AB002449, AR070327, I14842, AR087649, A84916, AX027925, AB028859, I79511, AJ132110, A62300, A62298, AR054175, AR008277, AR008281, AX033851, AR018138, AR008278, AF058696, and AR016808.
HOOJO38	422	100991 8	1 - 704	15 - 718	AL531631, AI983085, AL527211, AL526194, AI923350, AI819615, BE901824, AI635186, BG122272, BE728419, BG260421, BG109146, BG024689, BE796594, BE738377, BE731685, BG109875, AW516253, BE794629, BF025942, BE391594, AL528184, BE727443, BE736477, BF795001, BF026707, BG028283, BF794434, BG255190, AI590711, BE562472, AL531630, AL518218, BG104271, BF965976, BE274333, AV762986, BE729263, BF984059, AW473190, BF338886, AA737352, BE251289, AV655988, BE871215, BE385375, AU123120, BE537431, BF795361, BE563141, BG179543, BE389545, BE279135, AW102952, AI992206, BE274788, AI564728, AA804870, BF663213, BE294212, BE389212, BE277137, AI890776, BF794711, BE894574, BE409929, AV752081, BE793519, BE280595, BE263958, BG165237, BF663378, AV758987, AI890733, BE410686, BE253511, AI458832, BE900482, BE279951, BE782108, BG116106, BF685318, BE385945, BE409462, BF684482, AI589325, BE900553, BF025688, BG104183, BF965657, AI445978, BE261172, BF975083, AI951212, BG024839, AW780427, BF971859, BG028059, BG253625, AV761980, AI683852, BF663906, BE388565, AI434960, AI499080, BE391963, BF683866, BE407371, BE313286, AI683168, BG033353, BE269180, BE260812, AW571765, BF568157, BE273792, AI432555, BE729573, BF679984, AI689491, AL526345, AW410284, BE391998, AV763312, AW269852, AW149044, BF663343, AI871089, BF183135, BE273288, AV682486, AW130195, AL518217, BE275734, AW239186, BE384226, BG165891, BE898135, BE907411, BE265210, AW440291, BE313877, BE280533, BE260744, BE902943, BE544441, BE251633, BF131800, BF568884, AW104857, BE898978, BE206852, BG260357, BE391257, AW583713, BE397380, AW613264, BE614507, BE280528, AW247198, BG027893, BE786936, BF697381, BF124948, AW327828, BE742851, BE740337, BF664259, BF038698, BE895951, BE390445, BF700485, AA131182, AI635179, AW087993,

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HAOS169	423	100994 9	1 - 4383	15 - 4397	<p>AW302927, AW302964, AW303015, AW303021, AW303147, AW303179, AW303194, AW303225, AW303237, AW303239, AW303252, AW304642, and AW304667.</p> <p>AL518153, AL514204, BF690166, AL518152, AL514232, AU119073, AI347077, AU141798, BE732782, BE733859, AI186525, AI087288, BF310427, BF690424, BG036070, BE314678, BF982297, BE408935, BF034889, BF026282, BG113234, BE735456, BG249149, BG254771, BE261734, BG164248, BE384352, BG108338, BG166752, BG164026, BG104433, AI912334, BE410400, AI824103, BE382880, BE909819, BG164480, BG180537, BE390020, BE882944, AU123945, BG260903, BG122650, BE879705, AW080962, AA425549, BE408324, BF984892, AI814595, AI953979, AI453532, AI382164, BE396090, AI073747, BF337213, BE539444, BE047090, AL521610, BE273543, BG168476, BG253147, W67603, AI624162, BE899510, BF315611, BG254192, AA425389, BE409154, BG025942, AI689037, BF800051, AI288304, AI081104, AA599485, BE613371, BF689940, BE617351, AA148042, AI276505, AA577596, BE274186, AA516104, AA948080, BG165628, BG167809, AW169156, AU159265, BF061548, W67604, AI333594, AI366087, AW771113, AI351505, AI499061, AA908347, N26056, AA642944, AI023701, AL521609, BE895819, BG027950, AA160603, BE407745, AA403248, AL514203, AI284911, AA563710, BE390287, BE881555, AA487700, W46412, AI755078, AI289794, AA402387, AW770816, BE909356, AI753397, AW771076, H98049, BG153386, AI311390, BE873437, AI660881, BF984639, AI741468, BE893074, BE892029, W44436, BF088795, AI700678, AA148043, BE537043, AW292848, AI073353, BF088796, AI366117, BG112974, AI272818, AL135581, AA100801, BG167152, AA631077, AI085348, BF109995, BG111588, BE091204, BE164704, H99284, AI055890, N32676, AI633564, AI740837, AA613344, W92651, BF750470, AI278890, BF769504, AW503909, AI123599, AA226806, AI273471, AI298125, AI571777, AA403090, BF207039, AI095335, AA100854, AA102307, AI344561, BF082578, AI924926, N42086, W95203, AA029402, BF741015, AI146884, AI921518, BE167894, AI190622, W46300, AA100676, AA983722, AW954336, AI346589, N40420, BE612645, AI066484, AW369618, AA994114, W44495, AI752230, AA699584, BE718794, AA909844, AW514883, AA113245, AA133137, BE075271, BE075108, BF763944, AA525859, BE718798, AI752231, BF998505, BE718788, BE718805, AW298822, BE718809, BE541980, W48631, BE276181, AI079968, H20622, BE718795, BE772730, N27141, BF838848, BF762434, BF762460, AA151696, AI873252, BE080779, AI274886, AA113772, BF762443, AW263140, AI568929, N75459, BF798824, BE772750, BF689500, BE772733, BE772741, AA535600, AW264602, AW275281, BE926624, AI339890, AI168564, BE081115, AA126942, BE080727, AA453606, AA064623, AI620604, H66084, AI271377, BF750338, AA076431, AW131206, AR028135, I23762, Z23022, I96214, AR034830, M74092, AR043601, AR043602, AR043603, X75207, S78355, M64403, D14014, U40844, L09054, Z29078, I23763, AR034840, U00682, AF212040, S71637, AF182716, AF067056, AF148946, X66970, AR034527, AC004093, AC005743, AF029728, AF267747, AC004686, AC018767, AC068808,</p>
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HSDIY67	424	101015 7	1 - 1951	15 - 1965	AL526028, AL526085, AL529838, AL535461, AU120059, BG109937, BE780488, A1871620, AL529837, AA557390, BE779119, BE048954, AW300798, A1983510, A1356030, AA991670, AW026416, A1338588, BE697112, AA670019, BF109571, AA205947, AV682666, A1660386, AA975600, BE697110, R19774, AW961461, AW779506, H27830, AA359481, AA905792, BF927854, Z20638, BF355680, A1381389, A1748877, AA092002, R45193, BF369972, AA317627, AW664962, H27599, A1802448, AA007505, BF352188, BF802323, A1358233, BF802322, AW891751, BE670864, BF511450, AW891686, BG035631, BE267560, BE877499, BF814357, AW020710, A1888501, BF752999, AV764282, A1150993, BE536058, BG031791, BE965621, A1340519, A1473808, A1538885, AW020397, AW949931, BF032768, BG252315, AW152182, AW268072, AW813006, AW268261, AW089572, A1312325, A1612885, A1923989, BE965599, BF753056, BE877142, AV755614, BF904194, A1859991, BE047833, A1345415, BF914297, AV733745, A1312542, A1624529, BF338002, BF798503, AA579618, A1609128, AW935969, AV757996, BE963838, BE176248, BG107576, BE965732, BE966278, BE967187, BE889038, AK021950, AF226056, A75291, AC004383, S60260, A133665, A77033, AL080124, I48978, AK025414, AF119896, AF114170, A1299431, A18777, Y16645, AK026642, AF119871, AB048953, AL110196, AF026124, AF090934, AK024992, A93016, AF116676, A77035, AF067790, AF130055, AB048919, AL353957, AL122118, AF000145, X83508, I89944, AF065135, AL359583, AX045627, S79832, AF022363, AF119865, I48979, AK025435, AB052191, AL137533, U88966, AC002467, AF110640, AK027200, AL049276, AL050092, AF116688, AK026528, AL137478, AR000496, AL049382, U39656, Y08616, AK025465, AR068751, AF210052, AF119859, and AK026784.
HSDZM65	425	101029 9	1 - 1348	15 - 1362	A1344321, AW194980, AW162622, AW161811, BE695903, AW960568, BF589126, A1701104, AU154426, BE045555, BF033598, AW853100, BF971574, BF814791, A1970794, A1934386,

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HPDOC39	426	101040 0	1 - 1107	15 - 1121	<p>AL518597, AL521465, AL521860, AU142321, AL519163, BE791154, AV710439, AU137468, BG108541, BE875817, BE908178, BE794167, BE616810, BE797530, BG177616, BF791974, BE563172, BF203748, BG122611, BF983927, AU138928, BF304118, AU136676, BG256808, BG166547, BE908232, BE900747, BF981499, BE259007, BF984319, BF982660, BF203883, BE889058, BG121889, BE409876, BG028149, BE886412, AU135659, BE409111, BE777856, BE396964, BE891193, BE737086, BG252022, AW608289, BG115304, BF303724, BE888387, AW392529, BE562432, BE258634, BE889878, BE269473, AI174700, BF794665, AU134289, BG254012, BE254220, BE252060, BF215570, BF691292, BE295498, BE297846, BE409000, BE259383, BE259293, BG106782, BE780774, BF792473, BE539784, BE269036, BF699793, BE936340, AW978187, BF984873, BE089821, AW392532, BE409484, BE884858, BE872222, BF983743, BF983915, AL044183, BE268220, N28894, BF087516, AA488136, BF800736, BF027913, AA143588, AU139273, AI815968, AW405832, BF674380, HI1682, N42210, BF336934, W31775, N56608, N40261, BF810364, BG171478, AA805505, AA101513, AA101590, BF203625, AA085473, AI080684, AA338102, H85230, AW235051, AA552394, AA354823, BE645922, AI375591, AA356478, AA189014, AW392524, AA425206, BF083740, BE782032, H73591, AA159876, BG164729, H73817, AA373687, AA912092, BE083129, BF894997, AA356309, AW892368, AW582387, BF758870, R84501, D60569, W25687, T24902, H49162, AI565353, AW835598, T89376, BG011455, AI128815, BE698610, AA813807, AW582390, AA295075, W04674, N29653, BG117269, AA975223, AW381345, R58308, AL521859, AI445105, BE999943, R85283, AL521464, AL519162, BE813178, T80058, AW837148, AF130113, AB009282, AR052337, AC009032, Y12517, and X96392.</p>

HE2PS15	427	101052 5	1 - 600	15 - 614	BF244650, AW961558, AW248089, AW967334, BG029757, AV701568, BF219959, BF694529, BE791161, BF037860, BF696944, BF678089, AI186311, BF220033, BF219215, AI148765, AI582766, AI806566, AI209154, AI144495, AW305249, AI189759, AI478931, AA569869, BF965022, N30742, AA569868, AI491886, AI038347, AV739006, AI807215, BE391925, AI046958, BE858225, AI936891, AV742884, AW169997, AA742511, AI251732, AV715771, AV717459, BF668463, AI363204, AI057284, AI046957, AW182041, AI827188, AA115690, AA651663, AA978142, W30854, W15644, AA707791, N94563, AW249748, AA654862, N80826, AV764171, AI005595, BE896961, T90621, W31005, AA284212, BF965077, AV711844, AV734517, AA531530, AI132988, AW592487, AV733754, AV727768, BE565651, BG231096, BF245459, AV717832, AV745224, AV744752, AI190937, BE280227, F30153, AA935551, D53844, AV715232, BF216076, H91807, AI134308, N41841, BF244274, AA983553, AI134316, AI134315, AV746231, BE866551, F28648, H87571, AA468556, AA974508, AI066796, AI305827, AA554533, AA308101, AA654533, AW470941, AA548236, AA884280, AI244424, AA903485, AW023614, AA557186, AA864769, AA283903, AA650169, AA081589, AW183938, BE892296, BF679200, F36175, AA084667, AW275122, AI302453, AV739848, BE843421, AV741558, AA746065, F27405, AA907836, AA305437, AA852663, H92083, AA654036, T84144, BF247506, AA279759, T89384, BF209126, AA552449, AA906338, AA972090, AI133509, AA730939, AA626444, N56092, AA865834, AA215865, BG230951, H91708, AI134307, AI420622, AA937615, AW975237, AI040250, AA664941, AV746261, N98724, AV746266, F36194, T24920, AA369378, AW105551, AA506732, T83147, AV754243, N56408, F30237, H03246, AA341970, F18332, AA330234, AA635717, AA836574, AW189710, W30743, AI264957, BE074950, BF831201, AA730937, F18565, AA092677, AW975227, AA664664, AI701784, BF527500, AA665052, AA521064, AA094070, H03245, AA552043, BE693458, AW886065, AI000083, AI128403, BF571166, AI674940, AI200568, N94464, H95707, AA657887, AI038336, F20977, BE673362, AI332537, BF683735, AI674878, L25345, F37912, BF239600, AI336903, AA654565, AF054175, and AF116639.
HTTKH22	428	101059 6	1 - 1790	15 - 1804	BG258097, BE565269, AW970826, BE972364, AW104509, AI935735, AA428565, AA948090, AI149846, AA564462, BE972491, BF241442, BE144496, AA429521, AA741348, AI357926, AW296387, BG150242, AA412328, AI589867, AW205827, AI916262, T15665, AW090362, AI933368, R12639, BF360955, R20539, AI480273, AI698477, BF083192, BF083189, BF083190, BF229315, BF743777, BF083194, BE972369, AA825483, BE767465, AW371194, BE543997, BE768945, BF229316, AB046777, and AC009464.
HNOJG33	429	101069 8	1 - 1694	15 - 1708	AL514076, AU136058, BE871934, BF037005, BE734065, BG121727, BF340061, BE300394, BF203968, BF204799, BE300047, BE538261, AV761233, AW409777, BF805377, AW409668, BF205527, BF816400, BF679197, AV724965, BF206008, BE467989, BF445887, AI903791, AI500392, T64826, AA860771, BG152814, AI382895, AI903792, AW373027, F12113,

HPDV/K48	430	101109 0	1 - 1811	15 - 1825	<p>AI740878, H84580, AI369972, H38748, T97648, AA248719, BE537116, BE711210, BF817487, AL514075, R10203, T97682, AA316821, BF003096, AA339588, AW005868, N42355, H24794, AA364975, AU076536, AV742658, BF155770, BF081246, AA772366, BE677850, W96073, AA095922, AA091703, BF307175, AA324375, U01160, AC000028, U81031, S78432, and AJ388529.</p> <p>AI817702, BE734213, BG109696, BF343215, BG031900, BE902597, BF027605, BF027576, BE893930, BF591342, BE732160, BE384437, AI870638, AI816966, BF974651, BE732127, AW082941, AI955901, AI588852, T51227, T51341, BE732330, BE733010, BE799315, AA688018, BF827100, AB029041, D43921, D88508, and D88505.</p>
HNORJ10	431	101118 6	1 - 2847	15 - 2861	<p>AUI34078, AUI19820, AUI33300, AUI26958, AUI30520, AUI33937, AV702394, BE877191, BE881502, BE877741, BG108056, AUI19090, AUI28582, BE782436, BE894349, AUI33707, AI755105, AUI16910, BG258563, BE788956, AV683379, BG118247, BE778857, AV702635, AUI37107, BF965897, BG176784, BF976801, BE884018, AW239292, AI081900, BF978507, AW952777, BE875732, BG027117, BE877650, AI755063, BE878670, AV751366, AW949916, AI814464, BF678160, BG108194, BF571686, AW467192, AUI54668, BE535701, AW392400, AA429941, AUI46064, AW410667, AUI55188, AW410666, AW994720, AW952816, AW129607, AI983856, AUI43874, AUI57027, AI922802, BG112073, AUI53845, AUI49778, AUI52436, BE778846, AUI50846, C06050, BG118808, AUI53441, BF211683, AI204482, BF210654, BF217005, AW304738, AA887584, BF240843, BF678567, BF692112, BF571072, AA760671, BF923330, BG250728, BG119747, AA937180, AA504114, AW630580, BF696849, AW130041, AW055333, AUI45515, C75335, AW237574, BE565110, AUI30502, AI559451, BF572471, BG108209, AW080347, BE176786, BF340233, BF345008, BE737877, BE179704, AA410905, BF699275, AI042306, BF691962, AI752907, AI192876, AI924084, BF349490, BF246432, AA594633, BF794025, AI754970, N66338, AI342267, AA628679, AW674966, AW272202, AI673480, AW835336, AUI56216, BE696419, AA171565, AW079029, BE696416, BF982798, AI921994, BF699321, BE696412, AW440948, AA664266, AI572874, D83902, AI754356, AI569623, AI625058, AW468158, BE539716, C75346, BE696421, AI541217, AA244037, D56430, AW794837, BE464416, AUI49708, AA613984, AI520695, AA789181, AI818726, AA653377, BE738338, AW835340, AA156339, D53682, AW860422, AW800395, BF691025, AA598526, BE178042, AA904195, AW768275, AA204639, AW674968, AL121041, AA152250, BF919693, BE925260, AA367404, AW615031, BG260753, AA848082, W47003, AW862545, R71408, BE696408, AW860808, T32121, AA627976, BF690899, BF917679, BE937469, AA446236, D81210, AI721007, AW860804, D81637, AA659654, AA037225, BE184816, N23467, AW750094, AI476075, BE764312, M85743, AI446812, AI758576, T32145, BE177013, AA757693, BE712842, BF921651, BE767238, AA853819, BF326140, AI273910, AA279252, AA381186, BE160136, BE244985, AA152260, BE937463, AA508507, D83831, T35966, AA206071, AW753040,</p>



	432	101120 9	1 - 347	15 - 361	AA463528, BF350600, AA853818, AI826048, TI0441, BF902633, T30084, AA664662, AA296747, T32012, BF081538, AU127062, BF351535, AA294865, AW194536, AW389667, BE154256, BE764183, BE764188, R71621, AA339945, AI590860, BE764172, BE764166, R71117, AA847057, BF081731, BF355957, AL121085, BE764191, AW273705, U29165, U22431, AF207602, AF207601, AF208487, AF050127, AL137129, U85044, AB018398, X72726, X95580, AF003695, U59496, AF057308, AB013746, Y09507, Y09085, AF004155, AF050124, AJ227916, AF050123, AF004152, AF050122, AF004149, AF050121, AF004148, AL049780, AC007055, AF050126, AF050125, AF004154, AL133057, AF154121, AL122049, AL162062, AF218253, X56530, AL049423, AL133607, E04257, AL133015, E12888, AL133053, AL133049, AF119894, AL133081, AL122101, E13998, AK026442, AL133076, AL133608, W47022, AA504372, AA714314, AA091910, D11752, AA788713, T10413, TI0820, AI453464, AI684085, AI933855, and AW439013.
HPDRG92	432	101120 9	1 - 347	15 - 361	AL529603, T96738, R90778, H47758, AL529602, R94024, AA323896, AL523542, AL525995, N51812, AB033116, and AK001713.
HOFMQ81	433	101130 3	1 - 915	15 - 929	AL119457, AL121894, Y11587, AF118064, I48979, AF113690, AF130104, AF130082, AF130105, S78214, AF116646, AL110221, AF130075, AF113691, AF090934, AX046603, I89947, AF116602, AL389978, AF116639, AB048953, AF113694, AF118070, AL133640, AL157431, AB049758, AF078844, AL050393, AF113013, AF130059, AL117457, AL133016, AF116644, A08916, AF125949, AF111847, S68736, AL133606, AL359596, AF090900, AR079032, AF116691, AL359601, AF090943, AJ242859, AF116688, AF116631, AL110196, AF218014, AL390167, AL080060, AF138861, L31396, L31397, AF104032, AL049938, AL442072, AL117460, AL050146, AF119878, AL137527, AL162083, AF113689, AF130092, AF090903, AF090901, AL096744, A93016, AL442082, AL049452, I89931, AR059958, X84990, AX019230, AF113676, AL080124, AF113677, AL050277, AL122093, AL133093, AB048964, AX019229, A08913, AK026608, AK026045, AK026865, AB019565, AF090896, AK000212, AL050149, U42766, AL050116, AF106862, AB041801, AK025339, AK025084, AL133075, AK025772, AL122050, AK026741, AF119875, AL050108, AK026855, AF219137, AL133080, E07361, AF113699, AK025092, AB047615, AL049314, AK025958, AF158248, AF113019, AL162006, I48978, AL133565, AL389982, AL122123, AF017152, AL137459, E03348, AL359618, AF146568, AB050510, AK026583, AL049466, AF111851, AL133557, AK027096, AF119899, AK026744, AF119909, AK026784, AX006092, AL117585, AF116649, AL080137, AL122121, AL137557, AF207829, AK000618, AL050138, AL359941, X63574, Y11254, AF017437, X82434, AK026504, AJ000937, AF125948, AF091084, U91329, AK026533, Y16645, AK000137, AF314091, AK026452, AK026647, AK000083, AL137283, AB048954, AJ238278, AK026927, AL117394, AK000445, AL353940, AF177401, AF079765, A65341, AL359615, AL049430, AK026592, AB051158, AR087170, AL110225, AK024538, AF242189, AK027113, AK000652, AL049300, AK026532, AK026353, AK025484, AF116610,

					AL133560, AR011880, AF097996, AK025391, AK025491, AK026534, AL137550, AK026086, E02349, A08910, AX042059, AK026542, E07108, AB052191, AL049464, AL117435, A08912, AX026824, AX026823, A58524, A58523, A77033, A77035, AF067728, AK027204, AK026528, A03736, AB047904, AK000432, AF225424, AK026959, AF271350, AL133258, AF130099, AF130066, AB034701, AK025967, AF116682, AL117583, AL050024, U00763, AL122098, I33392, AF177336, and AL049382.
HOFNF27	434	101131 5	1 - 748	15 - 762	AW665000, AL521066, AA089566, Z44690, F05145, AL514786, AI678039, AU131437, BE167328, AA926992, AA249468, AW971745, AW804686, AW392670, BE695785, AW861944, AW604723, AW877209, AW858526, AW858525, AL119483, AL119319, AL119324, AL119355, U46349, AL119457, BE705903, BE705906, AW577135, AW372827, AW384394, AW861889, AW858455, AL119497, AW363220, Z99396, AL119484, AL119363, AL119391, U46350, U46347, U46351, U46341, AL119443, BF868687, AL119444, AL119341, AL134538, AL042984, BF868697, AW604726, AL119439, BF868684, BE705905, AL119522, AL119396, U46346, AL043011, AL119335, AL037205, AL134533, AL134920, AL134524, BE705904, AL119399, AL043029, AL119496, AI142137, AL134531, AL119418, AW861954, U46345, AL042614, AL043033, AL042544, AL042965, AL042975, AL042450, AL042542, AL043019, AL043003, AL119464, AL042551, U90716, Y07593, AP000967, AF200465, AP001670, AL163204, AF124598, AF109645, Y10320, AF109646, Y11929, U90715, AF169366, AF242865, AF242864, AF169365, AF169364, AB026436, AR060234, AX046357, AR054110, AJ251859, AX030435, A81671, AJ279014, AR066494, AR069079, and AR043113.
HOFND52	435	101131 6	1 - 591	15 - 605	AW971745, AW392670, AW804686, AW604723, BE695785, AW861944, AW858526, AW858525, AL119443, AW384394, AW861889, AW858455, AW363220, BE705903, BE705906, AW577135, U46347, AL134533, AL119363, AW372827, AL119497, AL119319, U46346, AL119396, AL119457, AW877209, AL119324, BE705905, AL119484, U46341, AW604726, Z99396, AL119341, AL119391, AL119355, U46350, U46351, U46349, BF868697, AL119444, AL119483, AL119439, AL119335, AL119496, BE705904, AL134518, AL119399, BF868687, AL134538, BF868684, AL119522, AW861954, AL037205, U46345, AL042965, AL042614, AL134527, AL119418, AL042542, AL042450, AL043003, AL042975, AL042970, AL043029, AL042544, AL043019, AL042984, AI142134, AL042551, AL119488, AL119464, AB026436, AJ251859, AX030435, AJ279014, AR054110, A81671, AR060234, AX046357, AJ251089, AR066494, AR069079, and AR080280.
HOFNL96	436	101132 1	1 - 563	15 - 577	
HOFNF53	437	101133 2	1 - 2384	15 - 2398	AF228061, AX014812, AF228060, AF228059, and AX014811.
HOFMU61	438	101136	1 - 1296	15 - 1310	

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HOFOF35	439	101149 9	1 - 731	15 - 745	AL520120, AU120794, AU142824, AU142738, AL524453, AL516006, AL531636, AL528608, AU135451, AW960802, BE255275, AF034175, BE251549, BE267417, BE787485, BG260926, BE866693, BF204561, AW402296, AW879901, AA130293, BE783678, AL536177, BE890412, AA026038, BF933394, AW995929, AF061738, AK022055, S65367, and AC006160.
HULFI37	440	101153 7	1 - 901	15 - 915	AL528378, AU129753, AL523012, AL523055, BE881260, AL536136, BE379029, AI936124, AW157228, BF036785, BE907027, AI246564, BF684205, AW163233, BF032696, AW167783, BF115257, BE908959, BF206407, AW966037, BF058749, BE905304, AA873153, AI814898, AI653634, BF033796, AW167930, BE908776, BE612522, AL523011, BE312284, BE315082, AI528507, BE260964, AA657525, AA846556, AA581813, AW170322, AI675942, AU126752, AW073723, AW439343, AL536135, BE294834, AA905511, BF983613, BE736100, AI672867, BE271931, BE563428, BF033808, AA565888, AU151827, AU126743, AA443893, AU126776, AU126631, BE048096, AI288014, AI349513, AA605069, AA947686, AI354687, AI344761, AA968896, BG110190, BF036720, AA837515, AU126400, BF035189, AW473570, AA857612, AW243736, AI350498, AI363381, AA677118, AA670096, AA427949, AU151595, BE350678, AW182617, AI560969, AU129491, AV699411, AA622740, AA444088, AV700357, AI283102, AI689102, AA569487, AA126127, AA554302, AI653485, AV745161, AL516918, AI354641, AA856700, BE613105, AI358308, AA071541, AI243359, AI546836, AW005289, W76149, AA244008, AI422558, AA775927, AA063086, AA650016, W72586, AW001140, AV698390, AA550916, N92857, BE904189, AI546843, AA773276, AI302461, AL520795, W25583, AI127036, AU126711, AA037265, AA340693, AI185816, AA160689, AL516917, AA885582, BE866790, AA155767, AI904529, AI564903, AA659174, AW474443, AI051519, AA121966, AI494596, AI689031, BF743597, AI351481, BF743584, AI814052, AA428047, BF155259, BF761628, H99387, AA921901, BF799202, AI970995, AU126531, AA687198, AL520794, AA635808, AA126065, AI972309, AW170212, AA928381, AA364687, BF799608, AI784469, AA065175, AA232437, BF114899, AV702749, BE765150, AI758612, AA090244, AI363998, AI868371, AW150636, AI869410, BF743525, AA092613, N31429, BF689044, AA065174, AI566999, BF155224, C18016, AA525365, AI924384, BF743523, AA528748, AI784640, T28360, BE694608, AA095763, T54666, W19684, AI184108, AI536700, BF688256, AI214861, AA069147, AA834416, BF743622, AA340127, BF063999, AI819683, AA232438, BG055557, BG153008, N90030, AA075883, N88126, AA612817, BF434087, T50502, AA330721, BF743541, AA565183, AA092202, AV697304, AI364889, AI699968, AA428951, AI360411, BG222691, AI908085, AA292397, BF330544, AA630996, R72795, AA155766, AA095477, AA402271, AW366864, AA236707, AW371105, AA720944, BE832973, AI633889, T50637, AI989937, AA055038, AA121965, BE171278, W04805, AA069239, AW496797, T54753, AW799852, AX014110, X55110, I15236, M94250, D10604, AX015411, E04786, M69148, E12896, M34094, AB036426, M34327, M35833, AB025023, M19662, M34328, M61754,

HOFME75	441	101160 7	1 - 1010	15 - 1024	AA063136, and AA155768. AL523165, AL515551, AL537265, AL520260, AL531902, AL533764, AL534019, AU123661, AL538449, BF725283, BE271314, BE741146, BE314972, BE514630, AU124220, BF980436, AW239518, BE745207, BE909798, BE266432, BE313375, BF984861, AW162833, AW629964, AW239222, BE019917, AI144171, BF515784, BF128026, AW239501, BE745633, AL531408, BF528125, BF984074, BF983109, AW238810, AW675333, BE887799, BG165843, AW239055, BF036003, BF688322, BF036176, BF314875, AA243255, AW068310, BG253491, AI750829, BG120518, AA114212, AA227340, AL528807, AA488270, BF036567, D83174, AB044778, AB044779, AB010273, X61598, M69246, X60676, J05609, AF100413, DI2905, AB044780, AB044781, AF202899, AF178675, and DI2906.
HOPKO74	442	101160 8	1 - 2246	15 - 2260	AL515550, AL520259, AL523164, AL525036, AL534019, AL537265, AL538449, AL533764, AL520260, AL531902, AL515551, AL523165, AL525035, BE379543, AU123661, BE741174, BE742224, BE741994, BE741741, BE742340, BF725283, BE740889, AI635814, AU124220, BE744987, BE744146, BE747153, BE744655, BG234333, BE745129, BF343576, BF033082, BF980436, BE877236, BF038485, BF338799, BE906099, AW151151, BF037069, BE272242, AI336307, BE898327, BE378159, BG116704, BE514864, BE314972, BG120943, AW239501, BE304338, BE514630, BE909798, BE271314, BE742968, AW162833, BF984861, AL038803, AI754209, BG028129, BE272350, AW239518, AA114175, AL038804, BF128026, BE868537, AI752340, AW239222, BE266432, AA641717, AA205447, BE620098, BE745207, BE31375, AW629964, AI176157, AA191544, W68054, AW629878, BE207655, AA454490, BE067208, BE221309, AA315647, AW364803, BE910175, BE910339, AA101234, AA565572, BF684840, AI049605, W92720, AI146365, BE019917, AA305265, AI863019, AA293056, W58348, AA565247, AW162724, AW338826, AI141482, AA987259, AW087936, AI954500, BF688322, AW517393, AL531408, AI755228, AA723072, AW069806, AI336074, BF528125, AI268308, BF984074, AI366790, AI144171, AI811037, AW150385, AI922017, AI191471, AA514403, AA733081, AA565401, AA873716, BF983109, R71440, AI753928, AI927706, AI131532, BF036219, BF695480, AA678650, AW368086, T57921, AI753517, AW238810, AA565403, AI332734, AW339060, AI884409, BF515784, AW950609, AI204058, AW955479, AA651706, AI291428, AI204251, AI479680, AI825961, AI829909, AW192557, AW087929, AA010142, BF983082, AI361591, AA025341, AA070470, AI635486, AI146535, AI355374, AI752341, AI190787, AW674813, AW675333, AI185961, BF314875, AA130318, T55713, BE745633, AA995846, W58473, AI890829, BF739075, AI690876, AA507465, AW304986, BG253491, AI827289, AA315478, AA889243, AI097500, AA564102, AI249028, BE887799, AW029503, AI401571, AA029192, AA293371, AI499166, AW614931, AA010141, AI589642, BE328767, AW005099, AA719959, AL531407, AA206070, AA971287, AW274613, BE206417, AA457512, AA219278, AA679718, AA777200, AI144387, AA613547, AI313366, AI874203, AV722770, AW176048, BF308081, W96392, W70032, AA974224, AI829452, AW239055,

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HCBBA51	443	101175 5	1 - 461	15 - 475	BF314829, AV712857, AW135421, AV756013, AV711642, AV706459, BE389248, AV762758, BE298463, AW873404, AV761365, BF974361, AV694674, BE385529, AV712150, AA035773, BE896094, BG028321, AA056334, AV712521, AA229819, AA314724, BF184153, BF244433, C14341, W68503, AA401339, BE378847, BF314729, AV751410, AV761330, BE378783, C14299, AV713770, BG059393, C14483, C14221, AV717163, AA308273, C14336, C14385, BE019161, AV709556, AV693316, AV764302, F21255, C13986, AV712395, BF696046, F24961, AA328328, BG230851, AW440694, AA135681, BE395394, W68387, BE730209, AA228680, AW009033, AA747774, C14434, BF941581, AI223384, AA622053, BF244539, AA010723, AI202387, AI073496, W07371, AI208241, AA533423, BE787471, AI223417, AV726474, AV728017, AV728046, F24716, AV726003, AW960673, AA853968,

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HDHEB13	444	101177 3	1 - 1157	15 - 1171	AI916779, AW304481, AA732948, AI288625, AW965223, AA443244, AA194106, W79527, BF511014, AI038644, AA443206, W93527, AA346195, W79559, BE296248, BE269743, AX039965, and AX039975.
HDTMG36	445	101182 1	1 - 453	15 - 467	BF972066, BF245607, AV703472, AV682014, AL038000, AV721711, AV728175, BF219386, AI133475, BF594923, BE837022, F22763, BF370629, BE830051, BF679794, BF693415, BE829971, AA528724, BE830055, AI479313, BE830057, F28205, BE717593, BE830025, BE836965, AA101196, BF973420, BE830061, BE830020, BE830059, BE818317, AA639940, AV734206, BE829966, AA501447, BE829985, BE830033, BE674258, AW772601, AA558672, BE837016, BE829982, BE830028, BE829988, AA082523, F36038, BE818328, BE836968, BE717560, AA603906, BE717609, F25953, BF975287, BE830032, AA886834, BE795191, F20554, BE830031, AI459928, AA747245, AA722455, AI417855, AA888508, BF837014, AI126653, AW102672, AI150214, AI479343, AW510846, BF109983, AA248555, AA559212,

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HVVCJ38	446	101183 0	1 - 2523	15 - 2537	BE410209, BE409948, BG115320, BE727135, BE275865, BE544451, BE247077, BF979132, BE276854, AI761191, AW190208, BF842485, BE552236, BE407430, AI401546, BF207408, BE910432, AW612622, BG009629, AW959204, AL135649, AI948809, AI209141, BE044454, BF768377, AI089727, AW589835, AA741117, AW054865, BE243221, BE512837, AW007188, AW024964, AW197517, AW192474, AI371883, AW732035, AI346775, BE273254, AI076529, AI086805, AI394074, BG113199, AI380843, AI613247, AI222796, BF112100, BF917505, BF842478, AW297124, AI523975, BE673122, BE502167, AW014930, AI655264, AA724818, BE243746, AI597975, AW470765, AI026618, BF923223, AA431124, AI684019, AI989704, AI862536, R51174, AA452620, AI285301, AI380975, AI380856, AI984759, AW295359, R35336, BE349571, R60756, BE503804, AW292516, BE247138, AI682541, BF923222, BG008918, N35451, AI302839, AA917488, W25150, H99364, AI972215, AI424358, BE243306, BE244991, AA937518, R48089, BE243647, R12836, AI262500, AI223148, BE242440, AW073337, R48082, BF815490, AW080459, AA576239, N35546, BE246634, AI954045, BE221690, AI809326, R46107, AW449766, AI954417, AW516184, BE247092, AA889557, AI799922, AI828634, BE242990, AW243116, AU127369, AI537699, AI867400, BF594684, AA514442, BE242999, AI553721, R60757, AI763211, AA432140, AI761010, BF510682, AW263306, AI763100, AW451349, R51058, AA470619, N24660, AI589437, BF315855, BE243714, AW000862, BF316405, AW960495, BF311549, BF347151, BE261173, BE672153, AA316825, R46448, R20746, BE260700, AA359340, AA995140, BE382562, BE707810, AI695433, BF983844, AI638588, BF304367, R47977, AW102776, BE246720, BE260234, AI934023, BE262038, BF838098, H41023, AW103559, AA354191, N93298, BE387142, BF206973, BF313395, R48998, BE241996, BF981535, BE241927, AW244155, BF984035, BF314395, BF973669, AA344952, BF761447, BF313034, BE261859, AA937240, Z40608, BE382532, AL031600, AF224741, U88844, Z67743, Z67744, and AF063100.
HPAMY22	447	101184 0	1 - 518	15 - 532	AW167128, BG230566, AW008822, AI521137, and S78079.
HE9CP86	448	101184	1 - 924	15 - 938	BE619589, BE778001, BG179191, AI990409, BE787128, AI056896, BF032589, BF210574,

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HPDOU46	449	101188 3	1 - 933	15 - 947	AA885514, AW571544, AI925136, AV751974, AA934359, AI336032, AI818811, AW292295, N95268, W25222, AR038157, AC008860, and AC016612.
HFCDW73	450	101190 1	1 - 703	15 - 717	BE612411, BF306028, BE295311, BF309599, BG114475, AW410748, BG178760, BF339804, AW839643, W01259, BE018592, and AK000376.
HOVEB13	451	101191 9	1 - 1361	15 - 1375	BG031307, AW957996, BE299537, AA928779, AI685200, AA576884, AW514270, AI218215, AI809292, AI355487, AW082223, AW263592, AW152614, AA424504, AI265774, BG236438, AW070728, BE789393, AA933972, BG058626, AA927905, BE788048, AA707564, AI921682, AI431416, N30148, AA132983, AI085684, AI225124, W40249, AI630792, W60086, AA563939, BE326510, H68849, AA127446, AA135149, AA127445, W53030, AW058274, H80062, AA302211, AI240522, BF515623, H69149, AA247723, AA897766, AI589066, AA595935, BE734169, AA609608, AW606716, AA973544, BG170959, BE644966, AA576883, BE349394, AW665349, AA969337, AA969535, AI694323, R10513, AL045971, AW993256, AI860774, BG027280, BF904265, BE910373, AW148363, BG029667, AI633125, AL120853, AI433157, AI702073, AV762488, BF970768, BF338002, AI284509, BE785868, AV757012, AL514721, BG113299, AI866127, AL514731, BF814420, BF812961, AI801325, AI434256, AW827276, BF038131, AI500662, AI318569, BG166654, AI269862, BF795712, BG257535, BE963035, BF527014, BG110517, AI513807, AW772536, BG029829, BG249582, BG252929, AW169653, BF970449, AI539771, BE047852, BF338723, BE876033, BE885490, AL036780, AI364788, AI537677, AI521560, AI500659, AI274759, BE880182, BF812960, AW827289, BF032768, AI500523, BF812438, BF812938, BF339322, BE874133, BF970652, AI284517, AI500706, BF816042, BE047952, AI445237, AI491776, AW151138, AI633493, AI284513, BE909101, AL513687, AI921248, AI677796, AL110306, BG031815, AI929108,



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HPAMS93	452	101194 8	1 - 4502	15 - 4516	<p>BG026454, AU136698, AA776842, AV707577, AV705003, AV706119, AV704393, BG112983, BF791105, BE501811, A1743650, A1671708, A1816789, AA723646, BE885350, A1636006, AW021004, AV726053, BF671148, W63546, BG249128, AW168299, AW665425, BF240936, BF692672, AA928542, AW950765, BE881258, AA846553, A1979064, AA742232, AW439829, AA449108, AA437197, BF695261, BE858197, AW134486, AA902878, BE546728, BF574789, AU152945, A1381912, A1684433, BF056144, A1139359, A1554413, BF381601, A1150427, AU157987, AW969822, A1424982, AW995211, BF351582, AA506295, BF209677, BE565044, A1088749, A1310443, AW512634, AA970921, A1359188, AA764772, AA827252, AA058552, A1362408, AW072743, AA766122, A1695798, AU157615, AW262974, BE835401, AA742318, A1623928, AA766577, AA513825, BF570645, A1394370, N51644, A1707846, AV721192, A1168421, A1348599, AA426385, AU155502, R78671, N59337, AU138435, R76132, A1433201, AA633541, T28713, AW103272, BE501987, R71309, AU131133, BF988802, N77145, R38553, AA084680, AW292597, R71256, AA053304, BE892939, A1474643, AV707777, AA346362, Z19210, BF800195, BE933905, AA970905, BE221948, H11501, AL121134, AA541406, AA373725, AV725851, AA348237, BF094439, R78631, AU139383, AA356852, R49221, BF086129, BE241955, D54215, AV721047, R42939, BE173266, AA348236, BE708094, BG109183, C00707, AA081650, F00029, A1699168, R25602, A1352064, R76083, BE835431, AU122860, F10470, BE501204, BE241571, R26998, AU134565, BE893499, BE244866, BF914011, AW237144, A1817847, A1968300, BE813282, BE878743, BF852756, BE241491, BF699184, BE708399, BE172638, AA879066, and M74089.</p>
HCRBN71	453	101196 6	1 - 681	15 - 695	<p>AA195119, AA195013, BF680123, BE219252, AA738440, BE540300, A1703457, A1183309, AA243291, AA243401, A1191561, A1292346, A1306531, A1817119, A1038422, BF211661, A1091896, AW051480, AA976687, AA243441, A1348605, AW015242, A1246250, AA989100, BF058616, AA831493, AA252613, AA459659, AA459782, BF570879, A1076966, A1784681, AA953732, AA931640, and A1383295.</p>
HCRNC60	454	101200 5	1 - 2294	15 - 2308	<p>AL527016, AL521200, AL524479, AL527060, BE734447, BG253129, AL521201, BF689091, BF965518, BF688892, BG166242, BG120159, AW007680, BG252573, BG027017, A1027899, BG250439, BG034762, BG028233, AL046964, BF688663, AA573191, BG250944, BE536191, BG250019, AL048451, A1983368, A1609925, A1391636, AW130457, BE018872, BG036095, A1925662, BG122085, AL524480, BG170360, BG121606, A1445752, BG121507, AA577112, AW513478, BF930780, BG034823, BE302383, A1814775, BE537945, AW874680, BG109535, A1655191, BE378060, AW769155, A1620523, AW950570, BF037587, A1690135, BF476375, BE273976, AW016285, BE273565, AA613365, A1516994, BG117073, A1624237, A1818796, BG251134, BF034144, A1697379, BE539030, AA506219, BE206559, AL516993, AU148176, A1748875, BE835356, AW190411, AA599544, BF921054, AU150378, A1436129, AA599412, BG118864, AA863094, A1687746, A1088772, A1075672, A1149159, A1766187, AA976487,</p>

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HSPSJ24	455	101206 4	1 - 1316	15 - 1330	AI026930, AI378815, AI922741, BF525953, AA837561, AI813985, AW575286, AW238276, AI568176, AV704102, AA833826, AW966027, AI610329, BF957805, AU155099, AI445584,

	456	101207 6	1 - 540	15 - 554	AW961244, AI334017, AI079505, AW864116, AV704875, AA404652, AI286039, BF530066, AI242489, AW864106, AA291389, AI870616, AV652034, N89796, AA902569, AI919269, AA291577, AI431315, AA668836, AA872786, AI831565, AW864170, AW794584, AW864163, BF340236, T28155, AI742033, BF857432, AW864152, AA631865, AA291290, R53870, AI126682, R34002, AI333467, AA364732, AI869894, AW088986, AW374849, H55942, AA878934, AA588087, BF953364, R53821, BF360435, BF848998, BE887127, AW751621, M87503, AL136295, U51992, and U92994. BG167998, BE081198, AC005250, and AC006477.
HPCPB22	457	101213 6	1 - 1190	15 - 1204	BE871201, AL079363, AI859755, AI151160, N47360, AI683204, AI827375, BE886069, AW369494, AA864845, BE770755, N56977, AA915977, AW627718, AW968202, BG252747, AA460264, AI359195, W22324, BE829260, AI082298, H37982, BG236816, AA620458, BG055923, H38203, AA991749, BF237665, BE770756, AA468461, BE704354, AI247941, AW470558, BE207909, BE829323, AI362578, BE833033, AA921753, AI867497, AI744126, AI783585, AA668493, AW451685, AL039988, BE165016, AA836177, BE693573, BF339879, AW270250, AI824219, AI216264, AI185891, AA505063, AA481160, AI123571, AI420255, AA463829, AI473334, AI554888, AA594994, AI202395, AI623088, AA505761, AI971348, AI263358, AI384099, AA234726, BF196906, AI417107, AA160515, AI004300, AA350704, T61636, BF094163, BE398137, BE267717, BE269084, BE267516, BE398095, BE397950, BE705905, Z99396, AW976502, AL119324, BF868687, AW861944, BF868697, AW804686, AW861954, AW969885, AW604723, BE695785, AW392670, AW976982, AW973209, BF868684, AW972292, AW973213, AW979194, BE705903, AW372827, AW858526, BE705906, AL119457, AW858525, AW577135, AW975002, AW975965, AW384394, AW861889, AW858455, AW970942, AW973219, AW970889, AW974823, AW363220, AW972377, AL119497, AW975952, AW972823, AW979127, AW972845, AW971403, AW974801, AL119319, AW975876, AW975966, AW969673, AL119443, AW971968, AW973252, AL119483, AW877209, BE705904, AW976511, AW975154, AW604726, AW976023, AW969791, AL119363, U46350, AW979212, AW975037, AL119335, AL119496, BG059382, AL042614, U46341, AW979204, BG153750, AW973270, AL119484, AW970113, AL119391, AW970627, AW971387, AW972884, AW973189, AW973202, AW972695, AW973805, AW973770, AW972719, AW976515, AW975976, AW979165, AW976510, AW969818, AW971954, AW972680, AW975975, AW969884, AW972943, AW969759, AW979083, BF592735, AW970587, AW973650, AW979175, AW975646, AW973986, AW979064, AW975938, AW975016, AW975019, AW975138, AW975968, AW970921, AW969766, AW979116, AW973185, AW972806, AW973987, AW975910, AW975943, AW972689, AW972706, AW973164, AW970097, AW973824, AW971964, BF588769, AW975904, AW974379, AW969752, AW975227, AW976037, AW973718, AW973967,

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HBCPH02	459	101245 3	1 - 1430	15 - 1444	<p>BE748869, BF970794, BF109702, BF981345, BF197326, AI300552, BF219195, AW964590, AW163294, AU118237, BF107178, AW957100, BE567746, AU150552, AI046520, AW893994, BE671865, AI376741, BE465805, AU148817, BE763405, AW298504, BF86318, BF056808, AI949526, AI766147, AI620120, AI192681, AI140674, BE840892, AA868721, BF091198, AV652131, BF666129, AW663986, BF365557, AW043639, AI989546, AW337182, W78826, AI039003, AU156430, T75226, AW451577, AW293998, AW351808, AW295214, AU153154, AW803385, AA430259, AI510818, AI308083, AI671263, BE769464, AW803255, AW803392, AU156278, AA099306, AL040713, W45375, AW276921, AI872944, CI7821, BE049636, BF848474, AI696052, W57547, AI962395, N22077, AA171668, AI342101, AA099816, AA992066, AW803326, AA193330, AW005014, W04771, AI628191, AI635617, R99125, T48495, AA592987, AI934241, Z43316, F08940, H80457, H81377, D82795, AI122977, AA284696, AA284590, AW337979, AA173427, BE185818, AA953291, AI251824, AA160137, R67589, AA369820, AI364187, T35490, F12859, R35378, AA369819, BF877494, BF877495, BF955988, BE769588, AA169306, R05772, AA194113, AW996501, AA001824, BE939044, AI658789, AA905018, AW996634, AW057868, AW404006, AA430050, Z40765, BF431206, W40159, AW087302, C19047, R51240, R05858, AA693378, C01276, AI735529, R44456, Z38249, F02058, AA002028, AW473147, AI524541, R99667, AV646092, T48521, AI873873, H90424, N75320, AA296739, AL043736, T27288, BE171992, BE748278, C16664, BF667063, AI471687, BE545906, W28705, BE844099, W80725, AI932539, AA321790, D82809, AU136017, AI535689, AW391533, AW448998, AA766709, AW502434, AW977442, AA825646, AI056222, AI084972, AI784081, AI696000, AA026072, AI381964, AI275012,</p>

HCONM62	460	101245 4	1 - 1884	15 - 1898	<p>AI040791, R51239, AA358951, AW169508, AI825932, AA812492, AI499892, AA744552, AI830084, AI831431, AI620315, AI024424, BE168242, AW070377, AI586971, AA678774, AA856729, AK001193, AK023171, AL050092, AK022637, AB018272, and AL050376.</p> <p>W18182, AL525625, AL516217, AL525777, AL516292, AL529335, AL518107, AL516216, AU141983, AA909718, BF797162, BE622593, BF688983, BF311705, BG117288, BE383732, AI935289, AI080630, AU134220, AA837568, AI680478, BE877487, BE799345, BE893825, AI951804, BE744943, BE880709, BF309943, BG170968, AI991856, BG032671, BF204389, AI418328, AI357756, BE869355, BG167780, AW514721, BF980576, BE902483, BE792330, AW001239, BF975628, BF982977, BG032139, BF690594, BF525334, BF684388, BG118865, BG167158, BE251548, BG122927, BG171316, BG259291, AL525204, AW305084, AW192510, BE541096, BF663597, BF182932, BF206116, BG163234, BG025967, BG106864, AL515477, BF970914, AA993402, BE378346, BG261021, BE874229, BE384576, AI963784, AW993536, BE547496, AW246394, BG113859, BF688592, BE512789, AW189185, AW439691, BE812374, BF205676, AW951440, BF033109, AU151473, AW245456, BE265299, BE312336, BF316503, AU151697, AU150525, BE407306, BF692367, AI762490, AU134112, N25538, AU159393, BE304333, AW296048, AA424439, BE780223, BG056169, AA604819, AU159323, BG112191, BE407298, BE812344, AU151618, AW410780, AI336881, AW468675, BG033215, BF928628, AA522716, BF755505, BF811268, BE044067, AU159742, N54545, AI922523, AI682016, AW247794, BE300178, AL525203, AI365462, AU151606, AU153392, AI951424, AW263576, AA622398, BF806870, AI989357, AI627223, AI890790, AI187155, AI371729, AA043459, AI951372, AI041776, AI159756, BE384278, BE928952, BG112278, BF569675, AA133071, AA047459, BE734100, AU120641, AW589573, BF346402, AW083362, W24389, AW072651, N76248, AA774414, AA424342, BE301090, AI075428, AI696741, AI753295, AA838037, AA548619, AA133070, AA132794, AI587117, AW197123, AA779035, BE966986, BF806863, AA088170, BE207325, AV656844, N34135, AI393008, H73708, AI476534, AI445307, BE328267, W29082, AA569485, BG009549, AA017383, BE174588, AA827611, AW779490, AA574398, AI290657, AI969487, AI084138, BE782015, AA047393, BG111353, BE812190, BF998419, AW601144, AA371969, T67525, AW874236, AI569140, BG165953, AL046641, AA226982, AA838649, AA088627, BF081730, BF325572, BE260928, BF798486, BF570004, BG250197, AA093382, BE937964, H63015, AW591486, AI370258, BE003077, AI567154, BF307874, H54695, H74223, BE909384, BF998405, N24832, AW514463, AI370348, AI174567, AA043460, BF804424, R74044, BE937910, N31758, AA376329, BF763897, AW469866, AI832887, BF944382, BF798766, AW262260, F03125, BF813431, AI026987, Z39968, AA954888, AA210678, H62886, BF745359, T19942, BG013875, BG011181, BG011075, AW952004, U22055, AB021491, AC008039, AC018662, U83883, AC006529, AJ005814, Y14314, T69523, R00187, R00188, R49118, N24558, N67922, N93666, AA493178, AA531599, AA535083, AA535648, AA552531, AA633021, AA864940,</p>
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HOGU69	461	101245 9	1 - 1076	15 - 1090	AA908334, AA077821, AA077944, AA078391, AA078647, AA626147, AA653365, D19637, AI668896, AI691128, AI695498, AI783587, and AW085897. AI041834, AU131484, AI200980, AU131609, AIS23472, BF035100, BG260988, BE906446, BF679739, BF312184, AA916757, BE786938, BE907375, BE882435, BG104553, AW003881, BE541116, BG251041, AA489052, BE042721, N25127, BF109620, AL119362, AA575865, AI814469, N23048, AI188945, AW194097, AA814140, AA991228, AI828232, AA044782, BE252873, AW193148, AI085157, BE147999, AI022397, AI189984, AA724929, AI351066, AI056076, AA938240, AA996103, BE018234, AA280782, AA488800, AI087074, AI199451, AI128165, AA262090, AU138117, AW591232, AI355359, AI356853, AA524527, AI360277, AA033520, AA280788, N20582, AA559009, AA676465, AI088598, AI311465, AI354780, W15254, AW946384, AI914929, AA508033, AW081777, W37433, H99944, AA034194, W39240, AI750152, AI040726, H99681, N28443, W37434, AA508041, BE010703, AI095133, AA508696, W38448, AI891015, H99648, N24439, N28712, AA969522, AA508060, BF130256, AW886258, AW886126, BE833921, AI266525, AA935334, AW886221, N94573, AA446386, H95004, AA825415, AI149761, BE092707, N25807, AA229348, AA825216, N28974, AV708464, AA228658, AI358053, AI372872, H99558, AV709572, AA040692, AA878281, R20044, AA508042, AV713109, BE242250, AA040691, R53806, R14634, N57352, H95115, W30863, H99287, N79830, AA044805, AI040716, AW768986, AL036353, AA043927, AA351987, AL134252, AW998436, N27404, AA223132, N29420, AW029461, AI289949, AA423964, AA126593, N29428, BG170431, N57360, AI749508, AA033617, BF916002, AW798880, BE932959, AA127239, BE932960, AA423965, H23023, BE092701, AI686200, M74090, AR019525, M73547, AC008536, U28168, and D55682.
HVVD93	462	101246 9	1 - 1081	15 - 1095	BE738428, BE622930, BE388215, BE728140, BE273270, BE253146, AW975614, AI828072, BE622113, BE740360, BE256369, BE513955, AL049117, AW246698, AI937156, BF952983, AW025197, AI569648, AA777531, AI200937, AI373492, AW082024, BE266217, BE727220, AW615439, AI131087, AW294607, AI890725, AW026504, AI955337, AA291355, BG255058, AA604477, AA213760, BE396916, R43170, BE264280, BE266305, AW088137, AW130381, AW293476, AW024648, AA725718, AA243878, AW872893, AI079160, AA991781, AI024096, BE277815, BF762401, AA714463, W04697, BG164126, AA749289, BF312230, AW173655, BF311310, AW872898, R72214, BE275756, R72173, BG035135, T81447, AA287579, AA852947, AI420773, BE273124, AI918030, AI934666, BE313702, AA287580, BE207070, D31321, BF884206, R81123, AA707587, T81446, BE737821, AI187858, AA703769, AI918961, H39080, BF206747, BF725734, AA852946, AI003595, AW196317, BE260174, AA426248, AI380772, BE295171, BE264554, AW009932, AI014898, AI699193, AA403296, BF342292, BF725972, Z41538, AI686972, AI468396, BE270370, AW081691, BE263952, D31040, BF207215, BF972786, BE294861, BF089748, W31799, BE882427, BF310977, AA243886, AK025906, AK024609, AC002472, and AC007664.



HCOMV86	463	101248 2	1 - 1807	15 - 1821	
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HCONJ23	464	101251 9	1 - 2066	15 - 2080	AL521287, AL521286, AU121333, BF034311, BG110423, BF982633, BG036657, BE889009, AV729379, BG168009, BG109870, BG258659, AI871993, AV658812, BF924696, BE789299, BE439392, AV705254, BE537571, BG250363, BF980701, BE785130, AV713479, BG259998, AI127415, AV714279, BF696027, BF577070, AI590917, BE882652, AW955631, AW55845, BF243381, AI435362, AU123306, AI984070, AW950649, AA767367, BF196954, AW949971, AA777629, AU152315, AW391781, AA779983, BE837794, BG032566, BE827757, AI354543, BE538840, BE717861, AI768125, BE717868, BF241607, AA426581, BE717859, AU153311, BE717848, BE827713, AU151880, BE827712, BF435369, BE717784, AL538303, AU146818, BE837746, BE827708, AW029240, AA670141, BF541036, BF197078, AA846794, AW338008, AI290479, BE717864, AI566144, BF241865, BE717766, AI697905, AI435413, AI275053, BF109919, BE837686, AA429080, BF343367, AI935821, BE830406, AA258548, AA992354, AW328118, AI538483, N23156, BE717719, AI332908, AW197265, BE302002, AU158434, BE540701, AA829064, AI435147, BE830389, AV656425, AI968065, BE717822, BE830411, AV687182, BE830409, N55086, AA476392, AI141833, AI937312, AI799494, AA448823, R93768, BE717823, C05021, AA448822, BE830419, BE830546, AI266320, BE717792, BE830393, BE717805, BE837744, BG261310, BE830457, BE538541, AA258602, BF815967, AI140691, BE830514, AA479965, W23180, AA625070, AW051979, AI188905, AW104834, BE538228, BE830551, AI022795, R41740, AI474203, AA233917, AW805520, AA478745, W90651, AI961454, BE717826, N67224, BE620125, BF204054, AW515522, AW385321, AA055196, AA938572, BF114988, BE717753, BE767225, BF447344, R98972, AI168789, AW168671, AI375094, AA344073, AW805519, AA992343, BE837650, H12351, AW834700, BE830554, BE830539, BE830558, AA055286, AI810280, AI283725, H59983, T88778, BE830459, R98882, AA383987, AV760328, N34539, AI918061, AA328975, R48616, BE830479, BF939050, R17189, AA037794, BE830556, BE837724, BF939897, BG259278, R48722, BE830559, BF057817, AI674862, BE792039, N62785, AI864068, BE830468, AI468804, T35292, BE830439, W07252, AW192978, T97604, R27615, AA303044, AA344116, AI758453, N78823, AA298049, AI864841, AI968791, BE830403, AA234165, BE830530, AI630255, N77297, T97557, D12223, F00453, BE830454, R30849, N32736, AA812484,

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HVVBL04	465	101253 6	1 - 656	15 - 670	BF969790, BE674362, AW592590, AL038838, BE937105, AL037436, AL038822, AL038761, AL040617, AL044186, AL041238, AL047012, AL044037, AL047170, AL040463, AL040576, AL041752, AL045684, AL040625, AL047219, AL044162, AL041602, AL043492, AL045817, AL040839, AL043677, AL040193, AL043467, AL040510, AL040621, AL043538, AL047064, AL043496, AL040464, AL046442, AL040553, AL038983, AL041133, AL041324, AL040322, AL041098, AL040119, AL041955, AL041096, AL041159, AL047057, AI142134, AL040075, AL039432, AL041163, AL041168, AL041292, AL038532, AL041358, AL037727, AL045753, AL041296, AL040332, AL041142, AL041346, AL041635, AL040529, AL040370, AL040745, AL046330, AL041197, AL040128, AL047036, AL040294, AL044074, AL040342, AL046327, AL041233, AL043923, AL043814, AL043845, AL039643, AL040285, AL045920, AL041277, AL041730, AL040472, AL040091, AL041523, AL043627, AL044064, AL040155, AL040052, AL041459, AL041131, AL041374, AL041577, AL134524, AL045989, AL040149, AL042135, AL046850, AL040444, AL043848, AL039744, AL040768, AL041051, AL043570, AL044199, AL040168, AL044272, AL046392, AL037343, AL046994, AL039316, AL046914, AL041086, AL037335, AL040458, AL044187, AL040148, AL045671, AL079852, AL045990, AL049018, AL044258, AL040253, AL041227, AL041347, AL044165, AL044274, AL037435, AL079878, AL041140, AL041186, AL040571, AL040238, AL042096, AL039338, AL043775, AL040090, AL041278, AL040414, AL044201, AL045725, AL039360, AL039915, AL043612, AL045857, AL044125, AL037295, AL043941, AL040082, AL037443, AL040329, AL037323, AL040255, AL040263, AW969625, AW968190, AV745951, AL041246, AL043444, AW970540, AW970070, AV759219, AW970079, AV729746, AL042898, AV732294, AW969778, AW969911, AL037341, AV692600, AV732613, AW970076, AW970101, AW969653, AV760852, AW968212, AV761360, AV762836, AV764028, AA311523, AW970020, AV745615, AW969624, AV759241, AL049069, AW969677, AW969664, AW968207, AW970107, AW968204, AW970105, AW969848, AW969936, AW969961, AW969648, AW974805, AW968340, AW951011, AW970093, AW970108, AW969916, AW969621, AW969626, AW969926, AW969631, AW969634, AW970118, AW970074, AW970069, AW970095, AW970531, AW969632, AW970096, AW970023, AW970053, AW970122, AW968148, AW969958, AL041210, AL047037, AW969934, AV745725, AW969691, AW970003, AL045328, AW976040, AW970013, AW970054, AW970115, AW970050, AW968150, AW970082, AV763316, AW969676, AW970014, AW969651, AV745196,

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HVVAF65	466	101254 2	1 - 2397	15 - 2411	AI718272, BE172473, AW950787, AV691361, AI694578, BG165602, BE908696, AI692948, AI435139, AW952424, AI749626, AA706620, BF435793, AI457978, N30162, AW594533, AI803132, T62985, AI302429, N66853, AI202793, AA934418, BF002753, AI344483, AA137137, AA828635, AA040849, AA137066, AI344480, AI970958, BE817251, AI266685, AV654372, AA193479, AA040205, AV646828, C15337, AA095042, H62021, D80729, AA602312, R96139, H65659, BF215297, BF673930, H15643, AI675539, T27662, H63016, R16219, D53152, N35776, AI439733, R67281, H72388, R16218, R96356, H61952, H72834, H62887, AA872751, H65660, F04944, BF803114, AA810796, AA079159, AA355280,

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HCONN76	467	101254 5	1 - 2256	15 - 2270		AUI121806, AI419322, AI375649, AA740857, AI923670, AU135618, BF974977, AI018493, BF972585, AV703204, AI580165, AI358951, AI949126, AI686544, AA890179, AW276428, BF974392, BF057399, BF593620, AW574807, AW384107, AW384111, AW384089, AA419530, AW384094, AA457042, AW378570, AW384086, AI689293, AW273393, AI610786, AI421949, AW954203, BF740135, AW305311, AA826781, AI148159, AI143789, AI243289, AI093096, AU147786, AA928572, AI094995, BF971481, AU154441, AA593863, AI091650, AA974953, AA630151, AW241907, AA487958, AU147378, AA112842, AI289031, AU148064, AA262949, AI187750, AA477235, AU152719, AI192762, AA291508, AA835410, AU147554, AA410900, AI275426, W63575, AI346888, AA975468, AI031872, AA149698, AA858199, AW090334, AA765920, AI347761, AI027390, AI734036, AA233688, N35403, AA233694, AI524762, AW169347, AI393690, AA233658, AW408537, N31876, BF683137, AI347762, AA232871, AI968983, AA233653, W49782, AA425969, AI961848, AW470581, N23975, AI218887, AI142748, AI379185, AA134943, AA033202, AA053117, AW360883, AI167537, AA514209, T60073, H61837, AA904089, AI127822, N30725, AI581987, AW802186, AA456886, AA426260, BF739150, AA456006, AU156178, AA127870, BF432078, AI468773, AA865246, AA587601, BF737239, BE710654, AA405416, BE699641, AA970821, AI263749, AA193601, AA954886, AA193638, AA402922, AA306065, AI000822, AA411349, AI150890, W48763, AI074634, AI382743, AW376350, AA477236, AA366868, N36466, AW794580, N25748, AW749051, AA295337, T28945, AW802239, AA295418, T99843, N98766, AW798065, BE886694, N48037, AA304560, AA004402, R35815, AW748384, AW390099, W30997, AI460116, AA303818, AW505188, AI915251, BG055292, AA128000, AA135020, AA421890, AA487959, AA304120, AA370424, F01957, AW793017, BF379088, AA151896, AW236287, R00415, BE243368, AA702709, AI559797, AI953687, AV699166, N41337, AW880777, AA294897, AA307162, F05704, BF115416, BF908893, BF925691, AW496798, AI825370, AI953746, C02666, BF953388, AA361869, AW371607, R74116, AA128097, BF129208, AU121592, H61838, AU133022, AW403738, BF974893, BE005171, BF836392, AA004322, AI865200, BF739143, AU122119, AA525968, AI432644, AI623302, AW059878, AI432653, AA521365, AW969217, AW081103, R88402, AA287544, AI431307, AI431316, BE893692, AI432654, AI431238, AI432650, AL134524, AL119457, BE880000, BG028055, BE782316, BE877515, BG024493, M30817, M33882, M65087,

HVVAF56	468	101256 8	1 - 1907	15 - 1921	<p>U55216, U88329, AF239823, AF047692, X66093, M12279, I08491, M21038, I08492, AP001609, AP001610, AL163285, AL442167, AC005612, AF135187, M21039, L35671, L35673, L35666, L35672, L35667, L35669, L35665, L35668, L31397, L35664, M21116, AL133015, L13297, AL133053, AL133049, AF081195, AL080126, AF217991, AL122101, L10353, AK025209, AK026746, E12580, AL359615, AK024533, AX014095, U00763, AL096720, AL117394, AJ004832, AL137554, AK026647, AL049339, AL161802, AK024588, AX040958, AX040974, X52128, U30290, AC005723, U01145, AL133084, AL122049, AL133070, AL049423, AK026541, AB048881, AK024974, AF155148, AF200416, AF054988, E12579, AF118558, AJ003118, AL117644, AK026522, AF139373, AL133629, AL133076, AK026374, AK000636, AB048910, D44497, AF119871, AL117582, AF260566, AF019298, AK026600, AL137463, X61049, AL122050, AF142672, AL353938, AL137459, AK000212, AL133074, AL133568, E13998, X99717, AC004987, AK000655, U72620, AF159141, Z30970, AF267994, AR038854, AF097996, A30330, A30331, X97332, AL162002, AL157480, AX046716, AL050277, AF155656, AL110225, AF265236, AK000618, U72621, E08516, I00734, AL117445, AL080124, S61953, E12888, AF207750, AK026533, AF117959, AF131773, AL117438, AK026021, AL355713, AK000421, AF116646, AF205861, AL133608, AR068466, AL137294, and AL162062.</p> <p>AL514054, AL537008, AL532603, AL535940, AL538399, AL529001, AL529002, AL537022, AL515506, BE748601, BE379647, BE856256, AI745675, AL538398, AL515505, AI718655, BG109288, BG106676, BF967665, BG254245, BF967445, BE782963, BG029254, BF341020, BE883878, BG029156, AI718665, BE880488, AL515399, AW239191, BF697586, BF666823, AL514053, BF669209, BE834020, AI628483, AV717613, AW170524, BE380120, BE748186, BF799917, AW664448, BE885331, BG116480, AW965398, BF978100, BF666698, AV733960, AI744093, AW951553, AI769591, BF572884, BF184368, BF576290, BF740061, AI972760, BF698691, BF218148, BE380074, BF672537, BF696554, BF185121, AI671368, BF699714, AI651178, AW338334, BF184985, AI491949, AA506351, BF671044, AI887192, BF000141, AL538204, BF185179, BE091061, BF103713, BF244535, AA479280, AA527565, BF691787, BE538280, AI453749, AA617680, BF509619, AA479375, AW965970, AW880520, BF240551, AW880512, BE538506, BE883435, BE564099, BE858573, AA489078, BF699134, BF679492, BF696899, AA292851, BF691104, AA148518, N57541, AW338167, AA515506, BF132517, BF697822, BF185037, BF681165, AI241342, AA968660, AA398752, AW601531, BF207851, BF978006, AW630103, AI629010, BF211123, AI809824, AA729569, AL538205, AA700576, AL515400, BF185504, AI285333, AI289314, BF668156, BF218929, BF184023, AI340156, AI278410, AA488831, BF132590, AA490516, AI879719, AA887318, AI084319, BF572822, AA506418, AI095818, AI291825, AA733156, AU126177, AW297453, BF678475, AI304744, BE169675, AA991500, AI298123, AA887921, AA659090, AA215332, BF699920, AA730676, AI276733, AI049785, BF216046, BF239649, AW352077, BF375287, AA214556, AI857748,</p>
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HODEG95	469	101259 9	1 - 735	15 - 749	<p>AV706891, AV707794, AV702857, AW964231, AV728309, AV705290, AV762633, AV702172, AW955724, AV759559, AV759295, AV718260, AV760777, AV763401, AV764379, AV762098, AV761107, AV711465, AW955841, AV762067, AV764051, AV763276, AV711535, AV759149, AV762973, AV709273, AV759340, AV764176, AV763457, AW966064, AW963489, AV759766, AW953953, AV759660, AV733749, AV761524, AW963592, AW962006, AV763178, AV759437, AV763439, AV719243, AV762870, AW957644, AW964213, AV764329, AV706410, AV759919, AV755512, AW962942, AV761904, AV763417, AV759967, AW962264, AV760725, AV759435, AV761127, AV726754, AV763558, AV762015, AV729411, AW962136, AW962444, AV732986, AV759191, AV762393, AV728369, AV764228, AV759557, AV761714, AV759199, AV729657, AV761862, AV760106, AV703998, AV763388, AV729947, AV711430, AW961606, AV710404, AV762730, AV762852, AV759290, AV707230, AV759503, AV760721, AV734690, AW956077, AV761273, AV733830, AV761653, AV760371, AV764230, AW958318, AV760508, AV759329, AV706814, AV759112, AV763684, AV759541, AV735132, AW961593, AV734859, AV764078, AV763418, AV762009, AV757642, AV759972, AV760230, AV764034, AV759417, AV762059, AV762242, AV757526, AW962713, AV759507, AW963895, AV759675, AV652936, AV710733, AV755677, AV759359, AV758355, AV756020, AV762898, AV714057,</p>

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HCOOX52	470	101260 0	1 - 1976	15 - 1990	<p>AC005969, AC008784, AC008762, AL136438, AL355916, AC007405, AC002115, U73628, AC004813, AC016995, AL031594, AC005480, U95740, Z95114, AP001727, AC008443, AL049843, AC005527, AC002565, AF030453, AL078583, U91326, AL121658, AP000514, AC010352, AC002544, AF195953, AC011495, AC007216, AL022069, L44140, AC020663, AL121868, AC025588, AL161903, AL121891, AC007404, AC004386, AC006080, AC008009, Z95115, Z85986, and AF168787.</p> <p>AL531502, AL531710, AL531501, AI193084, AU126412, BF339075, AU119468, AI583972, AI144541, BF570103, AU126159, AI620596, AI061637, AI684238, AW001470, AI935170, AU127320, BE645524, AI862761, AW514327, AW008194, AI922452, AI819747, BE710069, AW190852, AI814192, BF725435, AW514871, AU137600, AI831409, AV693669, AI685022, AI672194, AW083113, BF941230, AI935136, AA501844, AL047313, AV654605, AW662075, AW129447, AI818236, AI935126, AW874552, AI669352, BF569459, BF437103, AW780004, AU134025, AI696895, AI963545, AU135999, AL134647, AW008125, BE677081, BF674009, BE839418, BF063741, AI935332, AI814468, AI634936, AI888476, AW029345, BE138840, AW008148, AW439713, AI446104, AW191051, BF724219, AI569954, BE439457, AI889800, AI493899, AV687505, AW008241, BE047146, AI683843, AW591879, BE138827, AA433876, BE773049, AI623427, W67868, AU126448, AW130997, BE773013, AI064722, AW838930, AI829387, AI805767, AI885490, BE839409, AI038921, BF083224, BF726055, AI983182, BF725351, BF725636, AI453770, W63782, AI814781, AA481438, AA057510, AA291852, BE839363, AA588303, BF725601, AA056153, AW375493, BE839377, BF375755, W52853, AA459088, AA020914, AW951907, AA216572, AI279128, AL531709, AI096952, AI336068, AI354795, AU134654, AW516718, BE772982, AI863895, BG006581, AI818477, AA419314, BE773047, AI951361, AA404506, AA725630, AI859304, AA047024, AI133195, AW375482, AW057883, AA577496, AA423794, AW375513, AW118261, AW375514, AA419040, AW339467, AI768140, AI801629, AA491981, AA847236, BF887876, AW375483, AW375502, AI365975, AI075014, AI971082, AI199600, BE674533, AA479889, AA513436, AW170357, AU129847, BF945744, AI934297, AI360825, AA291730, AV733182, AI346003, BG000297, AI079413, AU145804, BF725787, AI749948, AA559045, AI873723, D58691, AI356781, AA595280, AA485313, AI587598, AA487965, AI401747, BE644631, AA428478, AI832552, BF725699, AL047442, W16893, AA070565, AI434189, AA227477, AA861322, C17872, AW589359, AI802572, AW338688, AW388662, AW193434, AA995852, AI270507, BF841518, AI089382, AI201579, AI024034, H29954, AW370152, W47174, AL534094, BF951244, AI633766, AW388664, AA012898, BF374803, R99187, AW388656, AV656309, AV710284, AI659777, AI078730, BF949331, AI940185, N58261, AW134700, BE697198, W39467, W96351, AA192879, AA970473, AI803846, AW152345, AI880563, W24156, AA487964, W45038, W26828, AI567216, BF870898, W47433, W27581, N72915, AW438642, AA974791, AA012974, AW276791, AI360793, H63649, R96360, T51976, AI272108, H94891,</p>
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HVVBR10	471	101261 8	1 - 2252	15 - 2266	AL521365, AL534986, AL521008, AL534987, AU124976, AL521159, AU125116, AL536239, AL521364, AL521160, BE273395, AU143143, BF984395, AU121881, AU143472, AU124409, BF974694, BE908198, BE794827, AU119610, BG116905, BG168288, BF972306, BG259845, BG031067, BE872969, BF967432, BE882029, BG250958, BF975499, AU137954, BE621284, BG024594, AL041284, AU120134, AW954857, BG116967, BE904930, BE876141, BE256789, AU139025, BF038339, BG030846, BF446656, BE898416, BF976624, AU128650, BF306610,

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HVV BK78	472	101264 5	1 - 630	15 - 644	<p>BE762446, BF964007, Z99396, BF868687, BE705905, AW861954, AW861944, BF868697, AW804686, AW372827, AW604723, AW392670, BF868684, BE695785, AW969818, AW858526, AW858525, AL119497, BE705903, BE705906, AW969714, AW577135, AW384394, AW861889, AW858455, AW877209, AW363220, AW969819, AL119319, AL119363, AW979212, AL119443, AW975037, AW973185, AL119496, BG059382, AW969885, AW979204, BG153750, AW604726, AW973270, AW970113, AW972884, AW973189, AW971387, AW973202, AW972695, AW973805, AW973770, AW973213, AW972719, AW976515, AW975976, AW979165, AW976510, AW971954, AW972680, AW975975, AW969884, AW973130, AW972943, AW969759, AW979083, BF592735, AW976982, AW970587, AW975876, AW973650, AW979175, AW973986, AW979064, AW975938, AW975016, AW975019, AW975138, AW975966, AW975968, AW970921, AW969766, AW979116, AW972806, AW973987, AW975910, AW975943, AW972689, AW972706, AW973164, AW970097, AW973824, AW971964, BF588769, AW975904, AW974379, AW969752, AW976037, AW973718, AW973967, AW975933, AW973734, AW979169, AW973207, AW979176, AW972882, AW973104, AW975028, AW969782, AW970868, AW972868, AW973985, AW973210, AW975648, AW971129, AW971403, AW973209, AW975971, AW969930, AW972864, AW973219, AW969658, AW972440,</p>

	473	101264	1 - 733	15 - 747	<p>AW979178, AW972883, AW979081, AW972933, AW973167, AW975162, AW979024, AW973193, AW972637, AW973750, AW971183, AW970110, AW972705, AW972827, AW973946, AW976012, AW979147, AW972823, AW970589, AW971259, AW971350, AW975261, AW971367, AW972685, AW972690, AW972817, AW979294, AW972371, AW975229, AW969740, AW970978, AW971968, AW972880, AW979085, AW979228, AW972699, AW979220, AW973190, AW974915, AW973088, AW975569, AW975173, AW975955, AW974107, AW971429, AW969861, AW979219, AL036418, AW972808, AW973728, AW979210, AW969839, AW972212, AW972866, AW972417, AW973271, AW974338, AW975018, AW975928, AW979201, AW972837, AW975964, AW975693, AW972816, AW979090, AW969753, AW973997, AW975106, AW975168, AW974089, AW975025, AW971415, AW972711, AW972889, AW973804, AW971414, AW971413, AW975031, AW975914, AW975922, AW972710, AW973740, AW975172, AW975387, AW969913, AW973200, AW975691, AW979078, AW968351, AW973961, AW975157, AW975174, AW969815, AW975022, AW975351, AW973829, AW975112, AW970860, AW972150, AW969719, AW973825, AW979084, AW971409, AW975986, AW971096, AW971732, X75756, AL135858, Z34524, A81671, AR060234, AJ279014, AR066494, AX046357, AR023813, AR064707, AR069079, AR054110, AJ251859, AX030435, and AB026436.</p>
HVV/BK73	473	101264 6	1 - 733	15 - 747	<p>AUI39028, AUI36137, AUI37891, AUI35546, AUI38700, AUI37082, BF992828, T46923, AUI36711, BF992829, BG002838, BF956994, BF997301, BF997306, BF803266, BF812082, BE929910, AA299528, H04349, AA367974, AA300047, BF086216, X78212, U11862, U11863, AC006343, M55602, and AF218035.</p>
HCOMW35	474	101265 2	1 - 1044	15 - 1058	<p>AI684897, AI200892, AI478735, BE561321, BF001430, BE269357, AW274694, AI798122, AI554564, AI554553, AI681112, AA576942, BF064055, BE559728, BF063173, BG057298, BE269083, AI281053, AA291322, AW661889, AI311456, BF514281, AI347538, AA291323, AA835642, AI417683, AW080290, AW015465, AW510740, AI620444, AI659037, AW977226, AA731234, AA642457, AA689434, AA731232, AI797545, AI425078, AA947102, AI280944, AA809333, AA732232, AA737649, BF055737, AL513907, AI637584, AL514919, AL515375, AI824557, AI284020, AL514627, AI701074, AI520785, AI362637, AL514357, AW198090, AI889376, AI433157, BE048071, AL513553, AI702068, AL514473, AL514691, BE018334, BF726504, AI274013, AV729336, AL514929, AW827289, AI801544, AL514063, BG180034, AL514205, AI564719, AI624279, AL513977, AL515019, AI567351, AI560099, BG249582, AI475817, AI539687, AL047763, BF726868, AL515191, AI590227, AW243820, BF793324, AI569583, AI702406, BE047737, BG112718, AL040243, AI702073, AL513781, AI538716, AL513693, BF727092, AW262565, AL514025, BF726322, AW663332, BF726451, AL514085, AI925156, BG164371, AI610402, AW169671, AL515413, BE904178, AL045266, AI608936, AL513999, AL513779, AL045500, AI567993, AL513597, AW303152, AW827276, BG120816,</p>

					<p>BF726001, AW150578, AI269862, AL049085, BE894455, AI537677, AL514793, AV735353, BE895585, AL514047, AI571861, BE962903, BF812960, AI554484, AL514251, AL119748, BF726234, AI499463, AI828568, AI873644, AW087445, BE048013, BG036846, AL514155, AI540832, BF970449, AL514983, BF812933, AI275175, BF341801, BF795712, BG257535, AI568855, BF032768, BE047852, BF338723, BE876033, BF054877, AI433976, BG252929, AI491852, AI539771, AL514325, BE874133, AI445237, AI554427, AI500659, AI572676, AI500523, AW071349, AL513643, BE047738, AW168795, AL513985, AI500706, AL513631, AI491776, AI591316, AW162071, BG179993, AI476046, AI273048, AV757279, AI254731, BG031815, AI868831, BF038131, AI802542, BG180046, BE048179, BE963035, AI815232, AL039783, AI620284, AI468872, BF726297, AI499263, AI583065, BE047859, BE048319, AI648663, AI648509, BF792469, AL135661, AI857296, AW148363, AI567940, AW168384, BG058398, AI697321, AL079977, BF727212, BF968205, BF812438, AI439745, BE047952, AL513713, AI862144, BG178911, AW088793, AL043326, BF970768, AI866608, AW151138, AL513687, AW274192, BF527014, AL038605, BG032208, AW084786, AI863014, AL513871, AL045903, BG111590, BG110259, AV755484, BE887488, BE886728, BG110517, BG251264, BG168185, AI349004, AV682264, BF037097, AI627360, AI249257, BF868489, AI636445, BE877769, AW268220, AR028455, U49730, X89986, U34584, AL022237, AF174421, AF174424, AF174423, AF090900, AF116644, I89947, AF111847, AF130104, AL162083, AF119899, X84990, AF174422, I48979, AF111851, AL110221, AL122050, AF116646, AF017152, AF119909, A08916, AL389982, AL080124, AL359601, AL050116, AF314091, AB049758, I89931, AF130082, AL050277, U42766, AL137283, AF113677, AL133093, AK026592, AL389978, AF113691, I48978, AK000652, AF113019, AX046603, AL133080, A08913, S68736, AL050138, AL137557, AX019230, AK025084, AB019565, AF113676, AK026533, AL359618, AF219137, AL050149, AL442082, AF113689, AF090943, AK025092, AF130075, AL133606, E07361, A65341, AB041801, AK026744, AK025958, AK026927, AL080060, AL353940, AK026045, AX019229, AF116639, E03348, AL117457, AJ242859, AL390167, AR059958, AK025772, AX006092, AF158248, AL080137, AF119875, AF078844, AF090896, AL137527, AF118064, AB048964, Y11587, AF118070, AF218014, AF207829, AL133640, AL137459, AL133557, AL133075, AL157431, AL122093, AL122123, AF113013, E02349, AF116649, AK026865, AL050146, AL110225, X63574, AL122121, AK027113, AF116688, AK027096, AF119878, AF116631, AK000618, AK026532, AF090903, AL133016, AL050393, AF130059, AL162006, AL117460, AF125949, AK000083, AL359941, AF106862, A93016, S78214, AL110196, AK000445, AL049314, AL359596, AF130092, AF116602, AL117394, AL133565, AB048953, AK026583, AB047615, AK026855, AF113699, AK000137, AR079032, L31396, AF146568, AF116691, L31397, AK026452, Y16645, AK000212, U91329, X82434, AF090934, AR087170, AK025491, AL049452, AF113694, AF113690, AF104032, AK026504, AL442072, AF091084, AL137550, AF017437, Y11254, AB048954, AK026542,</p>
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	475	101265 4	I - 1936	15 - 1950	AF125948, AF079765, AJ000937, AK026608, AK025339, AK026741, AK026784, AF130105, AF138861, AL050108, AF090901, AK024538, AF242189, AL096744, AL049938, AL137271, AL117585, AB051158, Z82022, AL049466, AF118094, AB047904, AK026647, U72620, AL133560, AL359615, E07108, AF130066, AF225424, AR011880, A08910, AL049300, I33392, AL049464, AK027204, AJ238278, AK026947, AF177401, AK026534, AL117583, AL049430, AK026959, AF116682, U00763, AL122098, AK024524, AF119871, AL162062, AX026824, AX026823, A58524, A58523, AF097996, AF177336, AL122049, AK025967, AL049382, AL137463, A08912, AB034701, AK026353, AL117435, AF155148, AK000614, AK026086, AK025209, AF130099, AB052191, A08909, AF130087, AF260566, AL137648, AK026630, X96540, AF061943, AK000323, AK025414, AF183393, AB052200, AF271350, AL050024, AK000432, and AK026528.
HVVBJ28	475	101265 4	I - 1936	15 - 1950	AL528408, AL522973, AL529995, AL530141, AL526233, BE275004, AL529395, BF343867, BG256905, BE872845, AL526193, AL529394, BE868712, BE883888, BE273090, BE383725, AA399958, BE388651, BE391299, BE895693, AW967063, AA165444, AW009236, BE395414, AA017606, H29686, AA683274, AI751272, BE544783, BE671807, AA165445, AI823998, AI659213, AW270895, AW302260, AI937006, AW470682, BE968707, AV755754, AA317291, AI337198, T63207, AA393623, AW805340, AI751271, BF889263, AA401400, AW805193, AI075114, AA088644, AW002097, T62957, AA317025, AA017493, AI627659, AA400608, AW073145, AA019385, BF941438, AW271790, AA700742, AA789211, AA088225, H29600, AI760822, BE183202, AA019384, BE590759, AI284395, AI865624, D59319, BF593686, AA401401, C20664, AA677572, AI767804, AF026851, AF151033, and AB019410.
HVVBR45	476	101265 7	I - 3619	15 - 3633	AUI20634, AL528938, BG116777, BE744455, BG024541, BG105634, BF526006, BE548428, BF340790, BE297483, BF795604, BG250467, AW950002, AU124855, BG177719, BG035815, AUI28003, AI908284, BE382499, AA129775, BG254170, AI279893, BE747515, AI827715, AA527855, AI885559, BG027992, AI991310, BF527629, AI885197, N25675, BE222933, AUI29326, W58477, AI890549, BE968759, BF983508, BE788617, AI040322, BF737414, H93013, BF344426, BE897190, AW007050, AI924625, N25714, AI446043, AW118763, AA493370, BF057508, AW873581, AI860982, AL526630, BE046501, AI912360, AW516934, AUI51479, BF762977, W73794, AA496467, BE907961, AI814467, AA142925, AW362918, AL157574, AA856581, AA948060, AA043690, AI872192, AI147489, N34061, AA878451, AA844016, W58403, AI860592, AA232217, AW086196, W75973, AI268108, AI141580, W73743, AI207799, W69080, AI366057, AW080053, AA028882, BE786506, AI366035, AA854738, AA564463, AI131222, AW303984, BF737413, AI033389, AA143148, AI761635, BE173656, AI280409, BF852593, AA780584, AI890510, AA977605, AA879112, AI609052, AA936565, AI274918, W23983, BF874699, AA693455, AA135704, AA845282, AI679279, W69683, AA701883, AA580563, BF796519, W00612, BF738570, AI148025, N24101,

					<p>BE046321, N99149, AA580573, AA878028, H97934, AI452716, AI276001, AI205249, BE157034, W69684, AA022747, AA776239, AI287246, N67835, AI590054, AI679854, AA661643, AI223090, AI299890, W93344, AI291455, BE070639, BF896491, W03439, H23472, N34102, F32204, BF351400, BF746828, D80794, AI362892, AW275202, F25019, AI204333, AI497686, C15433, AW592427, AA932700, N35240, AA996007, AA559112, T27788, AI094480, AA779435, AA907028, AI133271, AA826832, BF738197, F36641, AW900131, R54825, N63301, AA633217, AI222483, BF350803, H45067, AI283952, BG236818, AI278712, AW024424, AW798169, BG002205, BF923062, AA553597, R18390, AA906360, N99667, H82501, AI858927, N79418, AA894729, F27506, AI242087, W69223, AI018372, AW085841, R13418, AA643206, AA862549, BF058451, AI202000, AL134101, BF922672, T82273, AA913756, BF813659, H25666, F35305, AA574193, W70269, AA903752, AW805143, AI361227, AI370634, AW948399, H23471, R93905, AA970941, R93906, H86862, N31396, AI369579, N62519, AA496576, BF840471, W93434, AA907282, AA909669, AA910415, AA339459, AI954360, T90644, AA954277, R78965, N44906, AA028995, T52086, H26208, AA994564, AA724033, F08094, AA243121, BG236879, F23417, H23913, AA883882, W56126, F27293, AA043691, AI184060, L24123, X77366, U08853, AC004477, X84060, X78709, AF071084, AF015881, AC007544, AJ388511, AC007066, AR060234, AX030435, AJ251859, AX046357, AB026436, AR066494, AR054110, A81671, AJ279014, AR069079, T46910, T83171, R40928, R42453, R47982, R48096, R42453, R40928, R78872, H08465, H25888, H26252, H28402, H45036, R83239, H50537, N34914, N46644, N68284, N71718, N80980, AA069216, AA135642, F15526, AA635678, AA738001, AA933828, AA983720, F18745, F21048, AA644425, AA679964, AA678962, AA868384, AA884580, AI042609, Z24959, Z28666, D31210, F04334, AI269630, AI394485, AI424127, AI204905, AI208049, AI678318, AI817463, AI862984, and AW275226.</p>
HVVAF41	477	101266 5	1 - 1389	15 - 1403	<p>BE748731, BE748763, BE748704, BE748542, BE738542, BE379806, BG248894, BG254845, BF793482, BE739520, BG024667, BE546206, AV764107, AV710004, BG165568, BG106140, AV653833, BE880236, BE748668, BG032118, BG119765, AL036245, BF676015, BE778251, AV710461, AW955246, BF672659, AV757407, AL036186, BE881539, BF672708, BG030502, BF699618, BF672658, BF211316, BF669231, BF666671, BG166568, AV658796, BF212420, BE748247, BG169620, BF212264, BE884781, BF667759, BF699625, BF207694, BF665900, BE777521, BF215125, BF701217, AV650138, BF574853, BF575581, BF211437, BF791257, BE566395, BF665569, BF700142, BE379886, BF668671, AV715701, AV715023, BF669152, BF666977, BF672605, BF665908, BF576266, BF212430, BF665627, BF699403, BF698941, BF699441, BF238765, BE569019, BE566225, BF207543, BF207758, BF242453, BF695572, BF665909, BF028287, BF211015, BF667649, BF677662, BF103958, BG110207, BE738197, BF668144, BF184116, BE958206, BE379971, BF028523, BF209852, BF694862, BE866755, BE739256, AA579646, BF701199, AW817835, BF667118, BF672681, BF978665, BF669842,</p>



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HOCMN67	482	101270 0	1 - 1363	15 - 1377	AL524901, AL524902, BF346000, BF974670, BE300440, BE613761, BE298717, BF305443, BE737079, BF315660, BF975373, BE900875, BE794605, BE561418, BE297884, BE396794, BE513285, AL529353, BE560182, AW732675, BE560298, BE396870, BE392195, BE251954, BE397849, BE559742, BE869296, AW674368, BE273242, BE513542, BE939301, BE396873, BF899554, AL523561, BG036335, BF975060, BE712864, BE712991, BE712989, BE712980, BF366123, BE764733, BE816334, BE712872, BE889264, BE939316, BE712995, BE712968, BF091964, BE836278, BE712925, BE712910, BE712914, BE712939, BE713048, R88246, BE712933, BF590942, BE712954, BE836306, BE712957, BE712905, BE712898, BE793722, BE712951, BE713021, BE397330, BF353840, A1424305, BE713046, BG259170, BE764762, BE712893, BE711115, BE713029, AW966962, BF663330, AW843896, BE712908, T28088, BF353844, BE836190, BF993734, AL119235, BF806263, BE247329, BE712941, AW245699, BE713039, AA324644, BE713045, BE712907, BE713000, BF353823, BF935628, BE764756, BF767291, BF873692, BE256697, BF312944, AW793930, BE713031, BE939814, BF905030, AW246049, AA255647, BF898057, AW967945, AW408770, BE071408, AA291247, BE071380, BF803081, AW856222, BF751657, BE071379, AW881797, BE838899, BF942875, M80776, X61157, M34019, M87854, S48813, S81843, AF087455, M87855, U08438, U08437, U08435, Z64532, U08436, and AB012255.
HAPOW35	483	101271 1	1 - 684	15 - 698	BG107619, AL522537, BE787836, AV762511, BF248284, BF667269, BF577158, R11727, BE565643, AA378120, BE798891, H08058, BE293634, BE395888, AA232695, BE250045, AA195384, AW327299, A1915592, BE733913, BE538250, A1123566, AA456540, BF572380, AA312705, H19735, AA442143, AL522536, BF978828, and AA418920.
HOVJM48	484	101308 5	1 - 987	15 - 1001	BF514360, A1984072, BG104550, AW968769, AA447067, AA490806, BE866640, AA683471, BF155603, BF088348, BF088352, AL119141, AA490615, AL037910, AW591443, AA857381, W23546, AV762136, A1524540, AV682490, C14692, AW402458, AA508873, AV764104, AW977540, BF475757, AW276984, AW513195, T52478, AA176605, AW819567, BF766734, BE151470, F17700, BG057491, AW819626, BF964699, AW780137, F32710, AW151764,

<p>             AU148110, AA502175, AI160144, AA494038, AA830594, F15524, AW079809, AA346485, AI291317, W01998, AI803827, AA100884, AI064811, W01999, AW341864, AW238016, BF739175, AW802856, BF918165, AW075979, AA857296, AA342681, AA827978, AI859834, AA584148, AI049831, AW474152, AU146929, AV762047, AV763418, AV759935, AW028908, AI284583, AA483655, BF941563, BF981578, AW274078, AA501614, T47739, AW850885, AI292236, N22032, AI678392, BE045291, AW975164, AV758989, AW971073, AW979140, T03900, BF681174, AI049996, BF693906, BF796375, BF026590, AL036283, AA492222, AW973771, AA994578, AA553448, N25042, AW082744, AI053786, AA614010, AV733057, AI952900, AI347810, BE677537, BF108874, AI673731, AU137207, BF736198, AW193265, AI433247, AI471815, AU146086, BF037689, H58472, AI859946, AW662490, BE139267, AA484143, AI352078, AI570943, AA262752, AI345157, AA779783, AA577748, AA524832, AI270476, AA384039, AI362442, BF979071, AI538540, BF839724, AA652813, H82330, AI452836, AI804849, AI035593, AC064878, AC002543, AC021999, AC020754, L32588, AC007189, AL117332, AL031846, AC003015, AC006924, AL078639, AC005288, AC003043, AF188679, AC009228, AC008462, AC020916, AL137818, AC006023, Z96568, Z85986, AL121969, AC007842, AC009073, AL096773, AI133269, AL109923, AC005540, AC079045, AC008925, X54486, AC011497, AL021939, AC004472, AC026430, AC008275, AC005399, AL445196, AC066590, Z83822, AC019046, AP001721, AC013358, AL138787, AP002028, AL139100, AC002036, AL133240, AL109963, AL445220, AC004257, AP001208, AL450169, AL138807, AC002347, AC020728, U52112, AF009661, AL121926, AC006211, AC016948, AC005038, AC007993, AC006077, AL117377, AL136365, AC006285, AL133245, AP001477, AC005701, AL139150, AC004129, U46117, AF051976, AC005212, Z84479, AC000056, AL031767, AC008543, U03115, AL034405, AC005954, L05367, AL117341, AL355485, AL391833, AC020923, AL133328, AL158828, K00059, AC004867, AL354943, AL158040, AC009756, AC018641, AC018637, AL031659, AC006965, AF107045, AC005098, AC005011, AC004024, AL096863, AC004166, AL121975, AL008710, Z98950, AL033529, AP001330, AC005280, AC005831, AC006257, AC009518, AC007536, AF111169, AP000333, AP000173, Z98200, AF243527, AL078599, AP000701, AL136444, AC008009, AC005593, AC005304, AL121749, AC008752, AL050308, AL135978, AP000700, AC020906, AC004852, AC020898, AL161618, AL033526, AL158072, AC010719, AF190631, Z93015, AC006372, AC008555, AF001549, Z98036, AC004906, AL049593, AL356575, AL121949, AL021937, AC004887, AL360158, AL136369, AC004891, AL137059, AL034372, Z82172, AL021879, AL159158, AX039602, AL121601, AL121835, AL031132, AL138831, Z92546, AC073934, AL031296, AL110502, AC002400, AL136999, AC010252, AL157406, AC005614, AC005210, AL355803, AC006449, AF157065, AC008812, AC006084, AL157791, AL049776, D32202, AL035427, AC004967, AC016602, AC004820, AC016637, AJ295844, AL121897, AL049546, AL033521, AC016025, AC005189, AL008721, AL354750, AC010489, AB023049, AC005757,           </p>					
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HBJHY84	485	101321 3	1 - 1512	15 - 1526	BF513481, A1979334, AV750733, AW150342, A1554025, A1917181, BE466873, AA677977, AA836452, AU129610, AA747905, BF379175, AA214482, A1453218, AW959298, A1275918, BF059687, BE067524, AA810010, AW379211, AA301486, AA214481, AA214445, BF379159, AW082876, BF379158, AA721103, BF355470, BF355489, BE939440, BE548541, AB046771, AK000688, AK000703, AB052148, AK001514, and AL356321.
HODEY05	486	101321 5	1 - 980	15 - 994	AA676907, BE907847, AA151808, BE178106, AA465289, AA099035, AV681964, BE931939, BF126400, AV713960, A1968768, AA169424, AW070222, AW243844, BE348296, AA586596, AW016834, AW816384, AA761449, BF222953, A1990337, A1718942, A1807357, A1805276, AW510884, A1026648, A1655423, A1337899, AW514709, BF108752, BE326928, AU150814, A1925967, A1688125, A1334211, A1458611, BF055542, A1367596, BF446726, A1017955, AW273107, A1719981, A1653813, BF239166, AW117292, BE464800, AW003783, AA992935, AA151706, R34792, AW193690, N56974, BE326479, AA826184, N50399, AA903397, A1623937, A1626024, N64085, A1627773, AW515818, A1491985, BF955678, and AK001514.
HFIAS44	487	101328 8	1 - 1810	15 - 1824	BE886149, AW375593, BE269242, AW957836, BF530063, AW375621, AW957911, AW846341, AW375628, BE514122, AW846424, BG030265, A1811330, BF530319, BE869746, A1815588, BE868627, BE732069, AA557637, A1568426, BF313483, AL041389, AW402679, AA406384, AW375475, A1934752, BF155423, AA406342, BE168512, A1968463, AW973674, AW607132, AW846515, BG254619, AA406497, AA313680, BF816414, BG248281, T18893, AW604300, AW604302, BE538503, BF743311, A1206416, AA406519, BG248377, BF732203, BF854744, BF331846, BF087586, R17426, BF834809, T31135, H80276, A1784072, T65203, AW875193, H80290, BE535225, AA247392, AV750366, BF896281, AW973606, AV746827, H60654, BF922334, BF922374, BE936802, BE834304, A1695115, AA813331, AW975890, AW962644, BG236141, A1983327, W56290, BF197086, AA444138, A1816541, AA514456, AA843581, A1049963, BE221699, A1587092, AA250772, AW263993, A1046111, A1206498, A1183986, AW513618, AW664318, AW771830, A1888536, BE221175, AA485368, AA628369, A1580963, A1367671, AA443975, A1049696, A1061268, A1366699, R23237, A169087, AW151048, AA369024, N24093, BE075974, A1872289, A1049602, D80579, A1150944, A1626126, A1870066, AW166332, AA098961, AA283206, A1887547, BE075635, BF887600, AL121101, A1338261, AA047064, AA182785, A1252230, AA411078, AA412144, AW662033, AL041390, BE542595, A1761472, A1813797, A1762565, A1275243, BE926636, AA612773,



					<p>AW083385, H75862, BE177211, BF920669, AI439641, AI446245, AA394292, BF792218, T46989, D80917, AI421432, F28348, AL042057, BF770820, AA341173, BF344147, AW376053, T65134, BE882809, AW373604, R42660, AA425546, AI525082, BE793306, AI701307, AI560582, BE076123, F37277, BE882207, AW376051, AA191047, BF332146, BF438079, AI969522, AV751041, AA485525, BE550929, AA247233, BF760530, BF888351, T46988, AI004074, BF888352, AW504741, BF734486, AA369025, BF082836, H80373, H80386, AI690040, AA047063, AA187777, AW080581, AW375985, AA098828, BE816499, BF333303, BF333306, BE816510, BF333319, BF333295, BF333315, BF333317, BF333311, BF333307, AA378406, AF124727, AB014570, AF124726, AF124728, AL050382, AF124725, AF168782, and AF124729.</p>
HHAUD68	488	101334 9	1 - 2010	15 - 2024	<p>AU125260, AU143224, AU137482, BF979962, BE905320, BG110056, BE888357, AW954111, BF026567, BG029311, BE886387, BE787743, BF036993, BE005810, BE066803, BE005792, BG106111, BE005659, BG030463, AV716755, BE066786, BG031259, BE778590, AU135372, BE887428, BF034840, BF338135, BE868838, BG112573, AV712560, BF214840, N45714, BF213704, BF028304, BE885061, BE536630, AI356584, AI347088, BE395083, AI681921, AI188394, BF858245, AU126274, BE777483, AI096867, BF678510, AI949239, BF184121, AA707270, AA633307, AW958965, AU157193, AI690981, AW239297, AI200952, AI669681, BE005608, AI798809, AW089548, AW008494, AI890758, AI018475, N23783, AA725815, AW470025, N51271, BF247190, AI568976, AI359668, BF695947, AW009914, N20100, AI139586, BE044205, BG120837, BE005731, AA860476, BG037171, BF825690, BF857560, AI129987, BG260980, BF826918, AI718666, AI207986, N51936, AA768749, AA912686, AI383741, BF857536, AI245880, AI189601, N67649, AV654895, AA946580, N48992, BF826941, AA632226, AA167747, AI356794, W46970, BF826915, BF026656, BF058150, BF858239, BF826920, AA056425, W47070, N95707, AI911483, BF840837, BF857539, BF244858, BF696908, AW771738, BF840835, H82727, AW377477, BF241650, BF857561, BF572620, W70038, BF857538, BF837203, W81364, AI219967, AI245295, AI383740, BF837231, R62245, BF825157, AI961325, BF826913, AA487374, W38741, AI183329, BF826942, AI681827, BF826926, AA659102, AA828479, W00832, W81623, AI827180, BF516055, BF691072, BF825243, BF577004, AA487168, AA332859, AI129023, AI017064, W04513, BF381139, BE243202, AA384913, AI538100, AW770150, AA167647, AA361670, R59853, AA374619, W31455, AA056374, BF028286, H83601, AA865845, BE242044, AA723853, BF215949, R17124, AA064891, AI302004, AI121936, U90549, AC018752, AC073095, W01099, AA177121, AA249743, AA487257, AA487320, and AA680190.</p>
HEEA89	489	101343 6	1 - 770	15 - 784	<p>AW959616, AL135608, W22896, AV691197, AV692570, AA157308, H23082, AV683581, AA062798, BG249373, AI934999, AA480943, AI969520, D81149, F07060, W90404, AA299769, D60727, BF904504, AA233997, AI829619, BE876051, AA299827, AW006228, AW502192, AW499693, AW499650, AW501778, AW499690, AW471169, AW502898,</p>

						<p>AI354690, BF448640, AA315165, AA643671, AI494218, AI343102, AI749069, AW104946, AA494510, AW004706, H51057, AA773322, AA483147, H73553, AI918100, H59236, AA158176, and AF071172.</p> <p>AL536370, AL533357, AL533336, AI131336, AW007658, BF344552, AU120249, AI005333, BF968191, AU123605, BF339036, BG104516, BF342185, AI818341, BF341089, BF338566, BF448661, AW519118, BE897793, AI922459, AA595338, AA481702, AI573172, BF343104, AW580751, AW029232, BF338201, AA481466, BF341564, AI811324, BF340578, AA522691, AA838064, AA431924, AW960586, AU127761, BF340086, AI249784, BF737829, AI907170, BF724377, AI332914, BF724960, AA490462, AI167296, BF724935, AU146370, AW838943, AI247322, BF091112, AW571482, AI972197, AL047823, AI452419, AI913043, AI281146, AA973378, BE839067, AL047803, AI566503, AW627773, BF912663, BE839213, AI358043, AW840300, BF856591, AI536813, BF939426, AW192039, AI685213, BF912667, AW838897, BF344794, W92281, AA283179, BF673568, AA563581, BE839253, AA568563, AL040503, BE063215, AI688006, AV704904, AI370569, BE243977, AA490684, AA477377, AI468524, AA714627, AW471279, AI678831, R49217, BF838940, BE244521, AI906145, BF343096, BE836117, AI469506, BE810532, AA595306, W92141, AW057582, BF511204, AW268697, AI539663, R31060, AA477772, AA596047, BF753087, AI742615, AI270525, TI1643, AA973709, N93506, BE926227, AA527536, AW169984, AI815135, AI300224, AA443710, AI249321, AW103874, R70422, AW662932, BF913493, AI075341, H27076, AI538134, AW838918, AA477882, BF912716, BE844036, BE770137, AV750559, BE844009, AL047801, AW368290, N69960, AA614578, W21318, AA975702, BF770664, AW631089, BE772925, BF917313, AL047631, U53094, R46353, BF871119, BE243637, AW608388, AW519176, BE770131, AI648417, U53081, BE772931, C00811, BF749312, AA528240, R69441, AW351478, T04974, R46444, BE843765, AA295483, M85547, BE709154, AA443526, AW608283, BF841670, AW838934, AA602219, AA077339, BF092146, BF738433, AA077291, BF912721, BF092200, AW838892, BE938581, AA833204, AA077832, BE815760, BE720190, BE844003, AI914522, AA327286, AI872571, R85073, AW662967, AI926219, AA993064, AW839839, AW748245, BF943528, AW800423, BF850312, AW175924, AI798599, BE772434, AW878667, BE927001, BE938331, BF841498, BE843958, BE938306, BE157335, BE843775, AW385891, R35420, AW361539, AW839348, BF851191, AW385903, BF087246, BE836089, AF053944, D86479, AF053943, E07353, AF043942, X80478, AC006454, and AA976886.</p>
HNTAK22	490	101352 4	1 - 3509	15 - 3523		<p>AU128231, BE272526, AU130195, BE164466, BE164464, BF085254, AW813416, AK001556, AK001751, and AX017389.</p>
HOVBX78	491	101368 7	1 - 747	15 - 761		
HVVAW74	492	101374 0	1 - 1076	15 - 1090		<p>BG256269, BF530210, AL535365, BG254956, AI937808, BG255962, AA894922, BF570250, BF527816, AI826416, BF570040, BF345133, AI004246, BF761093, BG110667, AW026128, BE548730, BG107551, AA890692, BF982691, AI658655, AI802988, AI186105, AW516805,</p>

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HSPSF84	493	101385 3	1 - 633	15 - 647	AW081202, BF727086, BE561354, BE295468, BE267749, BE792824, BE513336, AV703327, AI814545, BE560144, AA701033, AI160850, BF726553, AW029525, BF106390, AI927392, AV688621, AA770666, BE695389, BE712504, BE695407, BE695426, BE695391, BE695427, BE695403, BE695420, BE712773, BE695378, BE695373, BE712334, BE712285, BE695419, BE712544, BE712220, BE695436, BE695425, BE712770, BE695432, BE695404, BE712628, BE712622, BE695409, BE695417, BE712724, BE695416, BE695415, BE695398, BE712549, BE695418, BE712547, BE712553, BE712555, BE695401, BE695422, BE712211, BE712548, BE712279, BE712502, BE695424, BE695429, BE712670, BE712324, BE712319, BE695423, BE712231, BE695402, BE695431, BE695395, BE712213, BE695364, BE695408, AA575902, BE712232, BE695428, AI742386, BE712391, BE695413, BE695375, BE712212, BE712222, BE712510, BE711558, BE712624, BE712507, AI524073, AI401286, BE712787, BE712430, BE695382, BE712160, BE711535, AW104087, BE712326, BE712414, BE712392, BE712449, BE695374, BE712322, BE711646, BE712100, BE712505, BE712421, BE712506, BE695360,

HPAMV95	494	101400 3	1 - 1393	15 - 1407	<p>BE695405, BE695377, BE712771, BE711502, BE695384, BE711670, BE828330, BE712102, BE695345, BE712668, BE695346, BE711587, BE712171, BE711842, BE711652, BE695358, BE711560, BE712331, BE695350, BE695421, BE712008, BE711604, BE712454, BE695400, BE695344, BE695351, BE712045, AA317838, AA687513, BE712170, BE695383, BE711508, BE695355, BE711760, BE712458, AA767170, BE712166, BE712108, BE712104, BF837811, AI889934, BE712047, BE712103, AI459535, BE712050, BE695368, BE712162, BE695365, BE711614, BE695433, BE695376, AA576980, BE712014, BE828321, BE695412, BE712498, BE711500, AA384751, BE695379, BE712587, BE695414, BF112286, AA687454, BE695362, AI367957, AA976480, BE712223, BE712101, BE711657, BE695348, BE695381, BE695434, BE695359, BE712221, BE711603, AW079821, BE711986, BE712281, BE712456, BE695361, BE711532, BE695430, BE695393, BE828313, BE695410, BE695352, AW510617, AW962270, T71962, BE856500, AI460272, AI309112, AA907009, BE712474, AA507928, T72102, AI886582, T71693, AA411532, AW591351, AI739011, AA626769, BE828312, BE695392, BE828315, BE712003, AA352952, AW370204, BF726661, AA359412, T81771, AA662912, BE327944, AW071632, BE695356, BE940444, BE711542, AA522896, BE712287, BE695380, D60602, BE562400, BE561772, BE562032, AB017568, and AF111713.</p> <p>AU140401, AI738421, BG031482, AI280092, AA400097, BF850021, AW083889, AW592654, AI742697, AI016064, BE903250, BE902947, BG104467, BE892580, BE302880, BF027402, BF726476, BF081511, W49684, BE409089, AI125462, BG032552, AA862329, AA486280, AA700818, BF820549, AI122804, W49694, AA400168, R11861, W49722, AW151672, AL045993, T53335, BF847816, AA962206, T48826, AW631078, BF884099, AA627637, BF737680, AW838008, BF357901, BF883577, W49721, BF988013, BE930738, BE930747, AW888969, AL046421, BE929077, T73984, AW498792, R68647, BF996158, F12365, BF850158, BG008754, R68697, BF037441, M85579, AI073794, AL533644, F07268, T29410, T54278, R24085, R26961, M85403, R22150, T48827, C01506, F27655, BF990588, AW361499, AA364950, AA853311, AA853874, AW380283, AA369501, BG004874, T53334, AW276429, R22149, BF986774, T54386, AA702765, BE762911, BF104742, AI611200, AA323024, F37322, BE747589, BF932773, C18912, AW996016, BF765531, AW998862, T50035, BF350192, H29127, BF668920, BF928730, AW998744, AA505775, AA298422, AW946325, AW946276, BG005177, T50090, AA542979, AI826634, AA112696, BF839409, AW373948, AI370444, N31154, N29691, N29692, BF823044, N50793, AL047256, AI640179, BG030359, M32304, J05593, AF127803, M82858, X62622, U44385, U14526, M32303, S72594, S82718, E12461, L31884, AF112115, M93954, X54533, X75924, AF144764, AF188489, AF156030, AF069713, AJ010315, AF095638, S68860, U44384, U44383, U44382, U44381, and AW270911.</p>
HOVBX22	495	101404 1	1 - 314	15 - 328	<p>AA714453, BF843214, BG222269, AV760543, AA767963, AI241705, AI439360, AA548087, AA737154, BG000467, BF841448, AC004815, AL121653, AC005482, AL138733, AL133246,</p>

	496	101420 4	1 - 1394	15 - 1408	AC002369, AC008392, AL022476, AC004638, AC007151, U80017, AC008537, AL445123, AC004150, AC005089, AC005255, AL161422, AL109797, AC005231, AC005184, AL109758, AF044083, AL049542, AC068799, AP001670, AC004453, AL138725, AC015550, AF168787, AL050349, AC005837, AK026079, AC005696, AC006261, AL049636, AC007954, AC004895, AC005527, AC005399, AL022322, AL049576, Z93930, AC007225, AL031277, AC008753, AP001688, AC006273, AP001691, AC004965, AC006441, AL031848, AL021808, AL132656, AC011495, AC005324, AL049709, AL117348, AL118520, AL121586, AC003982, Z83840, AC007655, AC009086, Z98044, AC009756, AC005529, AL355886, AC005015, AC006124, AC010719, AL138478, AL163285, AC002347, AC011444, AL008583, AC005071, AC006511, AC008413, and AL163201.
HPDRB63	496	101420 4	1 - 1394	15 - 1408	BG261404, AL655109, AL769371, AL673814, AL867165, AW271689, AW973626, AA488104, BF475415, AA492547, AA554212, BE905098, BF377593, BE790712, AI962754, AI703142, BE787290, AC003006, AK000077, AC010326, AC004017, AK026941, U38904, AC003682, and AB040941.
HNHGJ66	497	101425 2	1 - 2544	15 - 2558	N21235, AI371094, N27514, R73267, H42963, H42894, AW051024, AV715898, AV713456, AV733767, AV713329, AV712260, AV713333, AV725577, AV711811, AV763230, AV728404, AV763985, AV759285, AV651897, AV725441, AV725031, AV761360, AV725618, AV708786, AV725582, AV709580, AV653353, AV745940, AV762836, AV733915, AV725255, AV725321, AV726194, AV703632, AV716216, AV704144, AV708872, AV706223, AV729424, AV759241, AV652528, AV652001, AV726590, AV699269, AV727618, AV708520, AV759375, AV682278, AV728743, AV704626, AV726337, AV757269, AV764428, AV764028, AV743111, AV756617, AV704401, AV727822, AW955629, AV735331, AV756644, AV756815, AV708815, AV702671, AV707589, AV729473, AV661286, AV662242, AV660096, AV699250, AV725596, AV703168, AV661369, AV740765, AV660258, AV755566, AV728715, AV706560, AV705189, AV760852, AV699153, AV709356, AV687342, AV702787, AV705525, AV660516, AV763278, AV662268, AV702164, AV703273, AV655067, AV704590, AV746276, AV756563, AV759919, AV738231, AV753667, AV726156, AV707794, AV699156, AV707420, AV646736, AV706076, AV702071, AV707401, AV704712, AV733258, AV705684, AV712018, AV726653, AV764322, AV755608, AV702581, AV725991, AV707948, AV697350, AV704954, AV705416, AV703417, AV706407, AV734118, AV705234, AV654035, AV704757, AV705263, AV726628, AV706891, AV727017, AV703542, AV699223, AV709880, AV702851, AV707658, AV706882, AV703505, AV691615, AV727238, AV682997, AV715373, AV727126, AV729555, AV706162, AV708320, AV709596, AV701880, AV686417, AV701728, AV699199, AV645768, AV755330, AV715866, AV694871, AV729129, AV727459, AV726830, AV655901, AV703090, AV729366, AV728546, AV727337, AV702854, AV706734,

AV706133, AV706330, AV656283, AV705299, AV727469, AV701626, AV709273, AV716896, AV706165, AV709932, AV707088, AV709549, AV645545, AV708991, AV728455, AV733607, AV706989, AV703214, AV701874, AV709256, AV651075, AV726559, AV727103, AV758219, AV712190, AV705504, AV701873, AV726754, AV682309, AV729597, AV729077, AV703086, AV704974, AV706025, AV701879, AV727139, AV702280, AV727032, AV702498, AV704116, AV702728, AV758929, AV661744, AV725423, AV725556, AV707322, AV701538, AV706741, AV755214, AV707510, AV709494, AV725956, AV702354, AV706527, AV713145, AV728289, AV753858, AV707798, AV683285, AV724987, AV709244, AV707783, AV709733, AV709025, AV714286, AV755325, AV702339, AV704981, AV716238, AV645575, AV725387, AV713377, AV726787, AV706394, AV715597, AV647692, AV727189, AV725152, AV709776, AV725386, AV764078, AV703388, AV709935, AV704971, AV702781, AV706683, AV707654, AC007011, AB007880, AR091393, Y16359, D78345, AR088705, AR079804, A25909, AX028305, AR062871, AX020190, AJ244005, AX001322, AX009487, AX026824, AX026823, AX006816, AJ244004, AR038855, AX001082, AR017907, AJ244003, AR062872, AR062873, A20702, A20700, AX006825, AX006826, AX006822, A43189, A43188, AX008555, A98767, A93963, A93964, I63120, A98420, A98423, A98432, A98436, A98417, A98427, AR038762, A85395, A85476, I66487, AX021518, AR037157, AX042372, X83865, I44681, A84772, A84776, A84773, A84775, A84774, I15717, AR054109, AR067731, I15718, AR067732, A58522, A86792, AJ244007, AX006821, AX035462, A91750, U94592, A18053, AX011024, A93016, M28262, I08396, AR096545, AX009712, AX003207, AX032992, AX032993, I13349, AJ243486, AR095492, E03627, I48927, AR069650, A90655, A02712, AR073846, A77094, A77095, AR080470, AR077142, A81878, AX033488, AX033489, AX033490, A95051, X81969, A18050, AX012337, A23334, A75888, I70384, AX033474, AX033486, AX033487, A64973, A60111, A23633, AR007512, AR031566, A60212, A60209, A60210, A60211, I84553, I84554, I00682, A11624, A11623, E00609, A58524, E13740, A11178, E01007, AX035980, A10361, A58523, D50010, I62368, I08395, I06859, AR043601, A35537, A35536, A02136, A04664, A02135, A04663, A11245, AX006823, I03331, E12615, A02710, AX018504, AR035193, A92133, E14304, A07700, AX027811, AX027809, A13393, A13392, AR031488, I13521, I52048, A27396, AX027813, AX030369, AX030368, AR069374, AR027100, I49890, I44531, I28266, AR069375, AX042377, AR083151, AX027812, AX027810, AR091518, AX027816, AR072535, AX042375, AX027817, AX027818, AX027814, AR085082, AR085089, AR085091, I21869, AX042373, A91965, I44516, A70040, AR085079, A82653, AR085083, AR093385, E16636, AR074365, A24783, A24782, AR093392, A95117, AR095490, AR095491, AX032758, AF149828, I18895, E16678, AJ270780, I01995, I25027, AR069426, I26929, I44515, I26928, I26930, I26927, I08051, Z32836, AR038066, I05558, A20699, E00696, E00697, AX001330, E03813,					
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HDPPN96	498	101443 2	1 - 2722	15 - 2736	<p>AX003206, AR093384, I66482, I60241, I66485, I60242, I66483, I66484, AX004550, AX036660, AX036661, I66498, I66497, I66496, AR027099, I66486, AX023553, AX003194, AX023548, AR072540, AR008429, AR009151, Y09813, AR093383, AR051652, AR051651, AJ230935, AB043473, AX027636, X07299, E12584, AJ230902, and AA774938.</p> <p>AL525604, AL525558, AL521077, AL534190, AL527154, AI185636, AI829575, AI819363, AI479350, BG253409, BG032383, AA573959, BE049344, AI300579, BF058420, AW518075, AV716817, BF337764, BE675511, BE888674, AI983473, AA921746, AW360791, AW271353, AI860888, BE465498, BG030589, AI421961, AA642888, AV716825, AW360790, BF978677, AW519021, AI095593, BF679532, AI680068, AA574099, AW805000, AI076771, BE737699, BE881977, AA169187, AI524207, AA490996, AW008875, AI831282, AW951568, AW798513, BG256677, AA682617, AV715851, AA558194, AI434226, BF127503, BF692032, AW152268, AI431953, AI082278, AI340938, BE826953, AI092486, BE826955, AA031727, BF132325, AA905898, BE826941, AI338719, N33545, AA485213, AW889898, AL527174, BG165994, AI340935, AI239765, AW172625, AA588812, BE857411, AW178332, W94276, AI799016, BF688081, AI640740, AA128052, AI754987, N29050, AI830394, N41523, BG029968, AW385964, AI128078, AI819575, W81306, AI273538, AI633672, AI373877, AW408127, W81305, N31546, BE720781, AI129664, AW362077, BE840852, N26149, AA715151, AA643990, AI265994, AA115983, N67165, AA491191, AI583113, W24362, W94278, AA885017, BE827032, AA837151, BF907676, AI205980, AI524775, AA311550, AW804650, AI081801, AV764359, AI446215, AI270774, AI750276, AA768403, BF665222, AA382682, BG012355, AA806723, BG236369, AW946064, BF908814, BF378621, AA115982, AA856759, AI381226, AI676098, AW665881, AI566454, AV760834, BG235898, AI468285, AW613194, AA160813, AI277691, BE774488, AA455666, AA385997, AW946068, BE826861, AW391497, BE826868, AA280276, AW139342, BE843017, AA356204, AA355830, D20792, AW365748, AW946013, AI306708, AW402506, AW149289, AA742652, AW803435, BE047704, AI446429, T29910, AW578719, AV737596, BF826934, AA216228, AW801462, AV762185, AI206695, BE005091, BE246775, AA484937, AW380441, AA320856, AI750277, AW582327, BE720769, AI273821, BF977172, N21529, AA169315, AI827431, AI863462, AW365793, AI888019, AA126928, AA031618, N93641, AI962272, AW795951, AI472352, AA301277, BF966683, AA471173, AW629621, AA743414, AA287732, AW967770, BE826948, AA593188, AI654153, AI870683, AI690882, AA806556, AA100165, AA312519, AW795950, H37925, BF966493, AA160842, AA252606, BF360305, AI472713, AA167103, AI444959, BF002703, R57396, M63838, AF208043, AP002534, AB045363, AC006944, AF086545, AC005992, AB045364, S75421, S75429, S75415, AB045362, S75417, S75419, S75433, S75431, S75423, S75424, AF106657, A77033, A77035, AF026816, AL133557, I89947, AK025435, AL117587, X99971, AL023657, AB050410, AF119908, AK026894, A65340, AF116631, AL080234, U95114, A86558, AJ299431, AL162004, AB048881, U70981,</p>
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HPCTH41	499	101448 5	1 - 1580	15 - 1594	<p>AL534018, AI608955, AL533867, AL533937, BF195713, BE889941, BF968646, BG035915, BG163383, BE896629, BG030771, BE275159, BE548015, BF031407, AL038452, AV723354, BE890109, BE897450, BE876999, BG257446, BG117242, BE348344, BF965349, BG036194, AL038834, AV695669, AL038833, AW675828, AA775843, BF698072, AA133307, AV691956, BE794982, BG259283, BE883914, BF437152, BE267654, AL533936, AA527167, AA993699, AW511438, BG180250, BE549797, AW273070, BE884294, AA496105, AI090212, BE541569, AI203995, AI028519, AA534614, BE889533, BG059794, BG025375, BF106258, AA243516, BE269547, AW516807, AI677969, BE898115, BE967645, AW069489, BG249079, AA987229, AW300257, BG256131, AI094922, AI394263, AW474045, BF195539, AW074075, AI802136, AW104727, BF938958, AI860219, AI149730, AA704746, D51000, AW195032, AL533001, BE888200, AW008034, AI917003, AA496106, AL038451, AA214222, AI356769, AA136981, AI696834, AI446650, AA020916, BE350251, AA662977, BE645707, N99138, BF247377, AA776483, AW239553, AV708007, AW591897, AA643169, AW673505,</p>

HPCTY73	500	101464 6	1 - 2520	15 - 2534	<p>BE221856, AI086739, AA084898, AA098854, AV755499, AI288293, AW169187, BE349984, W63690, AA627998, AI050928, W24157, AA082949, AI380086, AI268921, BE739237, AI683014, AI304747, BF696797, H04070, AL036026, AI571135, AW023028, N53810, D79162, BF212416, BE294410, AA704097, AL038903, AI393018, AA137106, W75974, AI363453, AI811949, BE295786, AA044053, AA576852, W94506, BE958069, BE281399, BF217061, AA173336, BF032151, AI041633, AI251772, AA243459, BE549674, AA400250, N92725, AA811617, AA223981, AI953542, W92552, AW054742, AW953480, BG252663, BE897606, AA806962, AA400554, AI014946, AI621102, AI094635, AA486190, AL036764, AI657040, AI888404, AA626882, AI690290, AI694823, BF678049, AI365074, AA718939, AA554148, AA494382, AA173378, AA188910, AI538303, BE967408, T31235, BE302788, N33973, T09423, AA737315, BF512437, H19187, AI129858, AA252722, N99529, AV698656, AA223975, H15121, AA429673, AI929392, AA044107, AA325136, AW450061, AA401781, AA214489, BE739501, AA527605, W69396, AA099112, H44123, BF830980, BE777542, D58179, BF689402, W94622, T09424, AA018459, AW955807, BE892392, H12702, AA573083, BF572956, AW972390, T31376, H18520, R81065, H75897, N71570, AA306354, AI473473, R35470, AI826214, AA853847, AA214184, R13838, R37345, AI365298, AV693343, BF697086, AV740488, AA852613, W20343, AA084982, BG142172, AW163336, W52361, AI214139, AA069940, H37946, H75762, BF676082, AA281162, AV751142, AV686664, AA035402, AB014888, AB015799, AF060703, AF075601, AF080569, AB028854, AF035962, AC009502, AX011706, AB015798, AR094009, AL355379, AC010285, R36984, R39700, R43374, R68447, H03378, H11259, H12703, H44048, H88618, H88618, N32381, N71786, N81112, W92551, AA019435, AA020866, AA035401, AA074881, AA083038, AA129706, AA159207, AA804461, N55894, C16360, AA399374, AA770083, T24881, Z41357, AI419615, AI571496, AI192327, AI635906, AI936307, and AW084415.</p> <p>AL518813, AL518812, AU123330, AI075755, BE797364, AU126304, AV756391, BG109700, BF688932, AI718572, BG177424, BG023956, BF309413, BE879308, BG029160, BE790882, BG248978, AI609319, BG254252, BF525806, BE620762, AW026470, BG178518, BE901038, AW955264, BF973533, BG032716, AI879405, BE019490, BG118305, BG029617, AU124387, BF796066, BG029635, BE620213, BE877723, BE781287, BG106326, BE562121, BF220270, AW161803, BF796256, BE297841, BE782989, BG251385, BG117122, BE294491, BE206732, BG114282, BE250975, AA608644, BF348360, BG112269, BG034317, BF690088, AW732774, BF689860, BE295394, BE297410, BE881566, BF310319, BE294414, BE888603, BG178314, BE410911, BE280116, BF001631, BF740146, BG118519, AA630425, BG111525, BE787184, AA485947, BE410860, AA629754, BE893371, BE407690, BE883608, BE391571, AA488670, BG114156, BE018679, BF976316, BE390331, AV752154, BG122380, BE907958, BE907672, BF025729, BE386403, AA987552, AA489876, BE564101, BE301908, BE258586, AL121436, BF982497, BE536007, BF309014, BE207744, BE328845, BF026057, BE259770, BE882306,</p>
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BE395621, BF210762, W31028, BE018039, BE296521, BF203273, BF574495, AA630789, AV713147, AI127484, BF975587, BE391824, AA600130, AA065213, BE785110, AA491452, AA165104, AA102604, AA903391, AW731872, AA486197, AA579801, AA525020, N34240, AA677148, AA129743, AA581720, AI174308, BE221608, BE277533, AA515494, AA115039, BE296856, AA485641, BE389086, BE543202, BF723608, AA548516, AA664307, BE208035, BE391728, AI190948, N25641, BE964833, AI146906, AA938688, BE688705, AA977201, BF698798, AA418116, AI752502, AA213999, AA773550, AA129152, AW410566, AI081932, AA088303, AA190866, AV713213, AI095102, BE538801, AI878847, BG119905, AL138097, AA528308, AA643043, AI754056, BG026783, AI288437, AW246777, BF219719, BF215774, BF131761, C06263, AI283213, AA258622, AA738216, AA554642, AA486053, AI289179, AA115800, AI038219, BF223877, AU126197, BE042611, AA451677, AA126955, BE392611, BE302249, AW410567, BF223684, AW238833, AI525546, AA213977, N48063, AI084149, AA122221, AA191561, AA417938, AA063271, AI164688, W68670, BF195457, AA620481, T65947, AI752501, AW505121, AA772440, BF723614, AW016580, AA112981, AA219123, BF237642, AA629909, AA173757, AA127109, AI828577, AA127548, N98774, AW673867, AA115799, W45371, AA489558, AW511440, AI743190, AA088302, AA156321, N92702, BG059424, AA099844, AA133290, AA111894, AA453222, AW004650, W48577, AI084706, AA085694, AA435695, AA306583, AA085441, AI571885, AI954023, BE275723, BE780092, BF149154, AA749147, D30658, U09587, U09510, AC004976, AC005154, AX026126, AC006969, A08910, A08909, A08908, I48978, A08916, AK024538, Z72491, AF113690, AF113691, AK026526, AK025491, X98834, M86826, AK026504, A03736, AK000247, AF130077, AL353957, AK027136, AL389957, AF028823, AL359620, AL389935, AF166267, AF118090, AF090900, AF119883, AK025967, Y09972, AF090901, A18777, AF065135, E08631, AF217982, AK000652, AL133016, U68387, AF116676, I89947, AF119894, AF090934, AB048974, AL049382, AK026045, AL359600, AL133081, AK026741, A08913, AB038698, M27260, E15569, AR038854, AL133104, AK000718, AF183393, AK025391, X70685, AL359596, AK026947, AK025573, A08912, AL050155, I89931, A65340, Y11587, AF087943, I48979, AL117649, D16301, AL110221, S78214, AL162008, AR087170, AL080124, AR000496, U39656, AR070212, AF061943, AL122118, I68732, AF090943, AK000618, AB047941, AL122098, AF116646, AF090886, A08915, AL117394, AB049848, AF130066, AF118064, AL122050, AF119909, AF176651, AK027164, AF119856, AL137712, AL137548, AF113013, AF104032, S79832, AL122093, AF078844, E05822, AK026480, AL390154, AF132676, AF061836, AX017991, AK000083, AK025798, AB007812, AL080158, AL137529, AF130087, AK025015, AB052200, AK025254, AL137533, AK000391, AJ012755, AF116682, AF285167, AL133560, AL137429, I09360, AL389978, X87582, AL049283, AL050024, AF022363, AB052191, E06743, AF116654, AL117460, AL162062, AK026927, AF146568, U78525, M92439, AF227198, I41145, X63410, AL389939, AL122049, AF119337,				
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HCOPQ33	501	101473 0	1 - 2431	15 - 2445	<p>E04233, X84990, AF106862, AL050108, AK025375, AL110225, AL117435, U42766, AK026608, AK000450, AL110218, X06146, AK027204, AK026464, AX005848, AX005804, Y11254, AF119896, AB041801, X62580, AL049430, AL162003, AK000137, AL359583, U00763, AK027213, AK026950, AL133075, AX046842, AK025708, AK025484, AF057300, AF057299, AL162004, AL080074, AK024594, AF067790, Y10655, AB016226, AJ000937, AF116610, AF113699, AL133640, AF143723, AF079763, AL117585, A07647, AK025524, AL442072, AK027096, AF321617, AF061573, AF130059, D55641, AL137556, A18788, AL137463, AK024524, AK027113, AF118094, AL389983, AF119878, AK025906, AF119865, AK026522, AF111851, AF217987, AF113222, AF242189, AF130082, AL050146, AF039138, AF039137, AB049892, AK026533, AL122121, AF266204, AX020124, I89934, I89944, AK027116, AK026865, AL080060, AF097996, AK026528, E02253, AK025414, AK027146, AL137538, AL359941, AL080137, S76508, U91329, AF081197, T47551, T47552, T64522, R70190, H97064, N33261, N67904, W16899, W20316, W40137, W48722, W68773, W74242, AA033573, AA033574, AA063270, AA064894, AA082200, AA083707, AA099984, AA126905, AA127549, AA128933, AA135251, AA151963, AA156382, AA160182, AA180038, AA182644, AA190959, AA191637, AA197348, AA195895, AA258593, AA262173, AA464978, AA465047, AA292727, AA523585, AA551816, AA568802, AA832441, W27768, C05889, AA089556, AA652586, AA219290, D12383, D12389, AA485768, AA489511, AA489512, AA722910, T10852, T24678, F00208, F00897, AI628550, AI537119, AI799363, AI950767, AI952523, AI926734, AI927731, AI986281, AW195977, and AW338352.</p> <p>AI382146, AI348085, AV724179, AI670844, BG121803, AA778708, AW994011, AA576678, AA628091, BG027051, BE348559, AW005563, AI744134, AI934455, AW080366, AW303312, W46414, BE925834, AW360836, AA527295, AW130000, AI676052, AI970798, BE818697, BG056521, AA420456, AI870355, BE673868, AI379929, AI076205, BF063542, BF057010, AI299871, W95308, BF061770, AW005638, AA420856, AW151188, AI380233, AI681309, AW183687, AI498936, BF805203, AA535677, AI364948, AI538944, BF344175, BE813569, AW276611, AW072243, AW087477, AW381053, AA913619, AW003292, AA400464, AV681764, AA912521, AA778589, AA884178, H90010, BF763632, AA975310, AI453423, AI572187, AA884334, BE645760, AV660830, Z33575, AA657762, AA331097, BF341434, AW193094, H90100, BE004867, BE003539, BE927533, BF762288, AI281304, AV709786, BF093386, AA469215, AA983635, AV725548, AA469143, AI985948, BF931023, AI014655, AW075227, BF439017, AI467955, AA400739, AW994272, AW629195, AI934198, AI968800, AW951463, BE833871, BE833897, N92393, AW897800, AW020030, AW374875, H88219, AA770266, AA333065, AA375477, H89609, AA322324, W94793, AI810275, AA622877, CI5879, AW235096, H88220, AW360802, BF925976, H89373, BE868139, N80276, AA385905, BE004865, AW888412, AV750371, AI270170, AA090808, AW293597, BF858923,</p>
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HOER36	502	101475 4	1 - 1170	15 - 1184	AI700913, AI380934, BE089397, W24710, N85428, BE815044, AA334252, W07405, T24741, BF509328, BE836685, AW379683, BF805153, BE004814, BE004863, BE816211, Z46629, S74506, AC007461, AF029696, AF106572, AB012236, and U12533.
HLWDZ66	503	101484 9	1 - 682	15 - 696	AI830209, BE892339, AA056177, AW090080, AW959783, AW959780, AA639200, AI126271, AA858013, AA046424, AA947131, AA302895, BE171412, AW959774, AA302900, AA661502, N68025, AA302899, AW149294, AA302894, AW804757, AA970770, and AC005225.
HOER36	504	101486 9	1 - 3039	15 - 3053	AV649008, BE874350, AA446693, AA449142, Z45275, AU132020, BE869339, AV648920, AW992782, AL138309, AV648696, AW607264, BF241714, BF959303, AU132889, AB011100, and AC053513. AV713485, BG036534, BG170867, AI114598, AI111173, BG036983, BE150520, BE150675, AW961549, BF001502, AW966635, BF058522, AI111172, BG107400, BF683214, BE182687, BF513307, BF513304, BE348776, BF211600, AI686319, BF434037, AW009260, AV751640, BF437703, AW182505, BF434712, BF448430, AI658772, BE706456, AA570410, AW178382, AI138925, W84417, AI674263, BF184557, BE706455, AI352522, BE045375, AI202369, AI814344, AI141165, AI129867, AA913359, BE714168, AW615181, W38032, BF667748, BE674831, AI499784, AW237447, AW615373, AA291444, AI148057, BE348487, AA854179, BE706450, AI077329, AI215899, BF817382, AI275129, AW408721, AI301615, AW014525, BF431546, AI246490, AI143146, AW020055, AW149486, AI479250, AA772266, C14273, AI924398, AI719548, AW131580, AI120892, AA643857, AI298759, BE676037, AI191426, AW178336, AW514636, AW150733, AI041121, AI206905, BF967845, BF955169, BF693178, AI445939, AA446925, W67115, AI478785, AW165974, AI499669, N31994, AW390141, AW418759, AI498926, AI970714, AW968513, AW337533, AI660155, AI363053, AA461221, AI095282, AA779601, AA478839, AI304699, AA992491, AA024881, N63209, AA505701, AI090759, AI913992, AI766836, AI076142, N30241, AW380390, AA884384, BE706402, AL045996, AI190727, AA635512, AW025253, AI654598, AI830690, AA854125, AA227639, AI094000, AI762540, AI863564, AA421630, AA554337, AI354541, N31668, AA032235, AA443348, AW380690, AI470075, AI418779, HI8718, AI476471, AA889499, AI435164, AW341930, W38992, AI268787, N32541, AI660523, BF197310, AW439788, AA805244, AA024841, T05966, BE219831, AW057869, BF109078, AA024760, N57135, AI147635, W67116, AA316131, AA160223, AA483817, AA747030, BF057333, AA680140, AA614781, AW072149, AI521097, AA150539, T65551, BF749204, AA954811, N98640, AA460918, AI122872, BF057345, AA906065, AA970380, AI000154, AV724982, AA737575, T65618, BE327373, R83612, AA446007, AW418748, W67360, BF058074, AA227491, R83759, AA424865, BE706452, AV701935, AA877727, AW360967, AA024759, AI379985, AA512913, AI302491, AA906988, AA132381, N29103, W79433, AA625948, BE714160, AA621021, H27412, H09870, H82388, BG142122, BF108978, AI306648, H98146, H82361, Z45598,

HE8OX75	505	101501 0	1 - 1021	15 - 1035	<p>BF343177, N45101, AI278986, AA488870, AA740739, H82281, H09784, T05967, AA446283, AI913814, W79334, AI470792, AA485130, AA700683, R69895, N58195, N24195, AA160177, R20838, H82257, BF827024, AA488948, T31516, AI669670, R42018, H75876, F11949, AA385622, AI873646, AA426159, AA765971, T54644, AV688097, AL441883, AB047620, AF172066, AB008515, AF130102, AB041566, AF006465, AL050299, AF064606, Z93020, T54727, R06416, R06471, R13568, R19094, R20837, R25305, R37466, R39871, R42017, R42017, R46657, H75742, N42887, N93553, W21158, W38031, W67361, W84360, W84361, AA032287, AA132380, AA155620, AA255885, AA569636, AA573031, AA720974, AA732535, AA831731, AA904090, D82558, AA401891, AI051465, AI079793, Z42542, Z41285, F09596, AA693668, AI341775, AI382534, AI458340, AI200672, AI201629, AI658512, AI865217, AW166843, and AW337733.</p> <p>BF508570, BE644977, AV721684, BE856604, BG028865, AI570575, AI744298, W49489, AI693612, BE326589, BE222091, AI916606, BE218632, AI635636, AI928148, AI765683, AW961248, AA970114, BF433076, BE670991, AA702087, AI077996, AI638631, H40653, AI078395, AA846631, AI039434, AA233302, AW052158, AI702147, AI637587, AA932630, AI799774, H27897, H08753, AA327485, AI470586, T15460, AA054083, AL036382, AW276842, AV763971, BE047069, AI963720, AI633390, BF668217, BF942454, AI061334, AL046409, AV740801, AI708009, AA491814, AA623002, AW082108, AV763255, AA526979, AV764307, AI051816, AA581903, AI814735, AV761786, AV762395, AV762111, AI568678, AW833862, AV735370, AI273968, AV759274, BG059568, AW575742, AI344844, AL041690, AW979031, AW029038, AW193265, AV762826, BG231262, AW439558, AA578861, AA610491, AI783494, AI350211, BE677379, AI355206, AI284640, AI613280, BF887977, AI374809, BE156019, AI281881, AL042420, BF942059, BF942223, AW088846, AI064952, AW662543, AW083364, AW083402, AI431303, AW473163, BF918590, AI679782, AI345654, AW276827, AA525898, BF216716, AI801600, AV728928, AW517377, AA632994, AW972628, AW504669, AI634384, AL119691, BE350475, AW303876, AV703682, F36273, AW189303, AV760937, AV763354, BF883012, AI619997, AA806796, AV683151, AI873916, BF915247, AV734666, AI334443, AI368745, BF939954, AA469451, BF942311, AV731764, AV763633, AV699480, AI305766, BF919090, AW438643, AW088202, AI807650, AV762139, BE046438, AI610159, AW162049, AI239488, AI929531, BF854876, AW467735, BF942068, AI345681, AI141675, AI345675, AI085719, AA714453, AA468131, AI888629, BF915722, BF475381, AA569471, AV760624, AW082492, AA503258, AI669453, AI688846, AW104748, AV737044, AI792287, AW303196, BF840676, AA535661, AW274349, AI890570, AI251436, AI796627, BF940837, AV700487, AI471481, AA493471, AI962050, AI375710, AW513362, AV719316, BE206443, AI611990, AV710066, AI521679, AA225246, AI053672, BE049095, AI889781, AW193432, BG171096, AI860020, AW301350, AA219129, BE139267, AA947364, AI270117, AL040130, AI890928, AV761362, BF849758, AV761489, AV760774, BF962283,</p>
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HVASI06	506	101502	1 - 2920	15 - 2934	AU134143, BE870387, BF001941, BE710214, BG260588, AW963406, AI961474, AW382909,

	4			<p>AI923923, AI900751, AI813884, AA843844, BE219683, AI301132, AI963119, AI935247, AI690278, BF034743, AI740608, AU155243, AV698922, AW361050, AI264633, AW861027, AV694407, AW571756, BF036889, AW196974, AW274440, AW237561, AW263591, AI566325, BF477676, AI890112, AI985954, BE897725, AI587310, AI986332, AI968319, AI972620, AI675856, AI033049, AI554274, AI922853, AI738691, AV687198, AI342974, AW662263, AW963780, AI024422, BE645280, AA947925, AI138813, AI867016, N25349, AW029458, AW276074, AW026634, BE567485, AA505889, AW007315, AA862214, AA906022, AI797947, AA484620, AW365086, BF879746, AW963781, AI888735, BF588737, AI356599, BF149394, N31464, BF334228, AI688404, AA307247, BF438285, AW382877, AA491776, AA583862, AI000815, AA372018, AI289801, AW070462, AA577288, BE091511, AA723582, BF832097, H95976, BF062521, BF738014, BE711625, AA223227, BE000165, AA548574, AA594055, AA330741, BE074780, AI686185, AW856098, AV685864, AW014082, H98886, R34321, BE645893, AA301143, BE465958, AI206620, AW363149, AI524791, AI868801, AW273907, BF832849, AI468354, AI689913, AI799367, AV690524, R34204, BE694170, AA573469, AA948211, AI673243, T24686, AW392026, AW391990, BE708454, AW373130, AA773534, H95975, BE081095, BE933477, R35237, AI806231, BF816619, AI367468, BE541503, BE718010, BF059308, AK001805, and AK000178.</p>
HDPXP07	507	101505 9	1 - 2230 15 - 2244	<p>AIU143256, BF155736, AV715833, AI826460, AI814455, AI884890, AA769310, BE934114, AW966220, BF790844, AU152276, BF033751, BF576977, AU153650, AW166211, AI864665, BF081591, AU160375, AI084922, AW292992, AA779447, AA829630, AA025234, AI823888, AW418525, AI452519, AI360060, AI684798, AI655985, BE961037, AA026021, BF433538, AA026295, AA766554, AW770982, BF208277, AI276257, AA394033, N64369, AA825817, AA393837, AA435643, BF361706, AA639510, BF217285, BF672893, D60974, AA286843, AI689818, AA251918, AA807639, AA435651, AI246329, AA251762, AW772604, D25894, BG009135, BF736545, AA286844, BE967276, R22470, AA665974, AI570715, BE180751, AI702262, AA026294, BE935513, AW631147, BE812849, AI685029, H26865, R22420, AI565266, BF827750, AA090746, AA337356, T24552, N41739, BE170545, AW890651, AA169886, AW795854, BE935255, BG012432, AV692600, AV697880, AK023226, AY007102, and AK023074.</p>
HE2KH02	508	101509 3	1 - 3564 15 - 3578	<p>AL527105, AU132761, AU116991, AU137245, AV728472, AU137316, AU137381, AU139297, BG261206, AU136360, AU139962, BE549369, AA081939, AI677834, AU157422, AU135906, AI920927, BE785633, AA454989, AI907113, AW664875, BF591622, BE042932, AU154230, AA454990, AI378574, AI936349, AU138016, BF447224, BF337029, AI431805, AW360838, N95598, BF107069, BF084965, AI911175, BF110906, AI221497, AI379409, BE501519, AI424080, Z98481, BF084957, AA236458, AA905045, BF575997, AA553994, AU157090, BE894931, BE891457, AI032765, AI417372, AU156358, AU157150, AA236564, BE568360, AI697933, AI818384, Z98482, AI921677, BF888050, AA445961, AI082210,</p>



					<p>W95230, AU158241, AI091076, AA306175, AA430015, AI421265, AI298191, AA234597, AA446607, AU157621, AI184628, AW150103, AI968555, AI160253, BF763895, BE787845, AI922575, AA127941, AI698713, AW631464, AA082709, BF996242, AU156254, AA349343, AI082630, AI432406, AI359038, BF107137, AA679150, AW665609, H75696, AI290754, AA974762, AI081905, N54280, AI167548, W92605, BE867569, AW953100, BF754315, AA234077, AI796414, Z43674, AA349342, BE763226, AU156673, AA326858, AI264875, AA985275, AI338482, H09246, R10251, H89051, AA322020, F07511, R35580, Z39729, BE938777, H88968, AI834229, AA329190, AW205463, AA300737, H90664, Z42072, AA127975, AW900790, BE087669, W28679, AW845211, F01609, R97673, AA357051, T32922, R25767, BE551259, BE046333, T98859, AA446736, F03743, AA322004, F05351, AW190294, AW360832, T99455, AW809871, BE842258, AW809929, AW809987, AW810059, AA005304, AW809988, AW809966, AW609106, AA969489, BE842157, BE842133, BE842285, BE842284, AW809978, AW809872, BE842172, T27300, AL137756, AB023169, AL035448, and AK024349.</p>
HSPS160	509	101513 3	1 - 2217	15 - 2231	<p>AA631938, AW271824, AI793342, AI582327, AI284346, AA694067, AA285037, AI040042, AI683785, AW504437, AA282330, H11593, AI800992, AI139177, AI090037, AI804488, AI040087, H11679, AI279357, AI264909, AA282229, AI381465, AI199387, AA908723, F09528, F11880, AI240419, AI784560, AW865862, AA501653, AI243707, AI868576, AW576309, F11200, F08866, AA282817, AA278915, AI537020, AI801505, BE138594, AW591276, AW505253, BF769368, AV699840, BE968744, AW069227, AW026305, BE077105, AI421950, AW327649, AI419337, AV738383, AA857812, AW023111, AI310670, AV700192, AW338035, AI797998, AW338021, AI890324, AV718506, AW438542, AI361090, AW084445, BE244178, AV763026, AV763058, AA515728, AI335387, AA282951, AW514662, AV730986, AI538852, AI187148, AW327624, AV756491, AA873573, AA916430, H73561, AI310787, BF839844, BF528591, AA173166, BG029528, AV695953, AA410788, AA719073, BG036370, AI369580, AI821420, AU159329, AA501461, AI114534, AW328202, BF530611, BE893315, AA568204, AA570740, AA483606, AA526542, AI347603, AW500127, AW088656, AA614139, AW978041, AI090377, AA226584, AV755512, AI279417, AW973992, AA664604, AI267356, AI349130, AW467536, AW969743, BF763954, AI889579, AU159185, AI634187, AI267450, AA807704, AA773463, AA634837, AW068596, BE084668, AI491765, AI871691, AI380617, AC004644, AC004494, AC008403, AC004815, AC005399, AC004216, AC007597, AL031311, AL121890, AF111168, AK001397, AC012309, AC008407, AL034417, AC025447, AP001727, AC005696, AL109843, AC004181, AL137073, AC023344, AC005666, AL035659, AL035662, AC005200, AL079303, AL356299, Y14768, AC020908, AL035413, AL022163, AC008745, AC005095, AL049839, AL034429, AL096791, AL031300, AC005300, AL132653, AC010163, AL096702, AP001747, AC006388, AB000876, AC006487, AL355530, AF088219, AC005921, AC006023, AP000302, AF111167, AC010422, AL118520,</p>

					<p>AP000114, AP000046, AC007216, AP001717, AC007207, AC010326, AP001412, AC007371, AL162724, AF241728, AC005225, AL136504, AC004675, AC009364, AC008969, AC020904, AL121752, AF001548, AF067844, AL109921, AL049631, AC009087, AL450226, AP000152, AL136135, AL391839, AC004383, AL109825, AL033397, AP001208, AC006511, AP000505, AC007546, Z98051, AL049576, Z83826, AF168787, AC007011, Z49258, AL158824, AC011494, AC026881, AL109614, AL136295, AC005730, AB000882, AL137026, AC006077, AL096701, AL121758, AC004840, AL133344, Z95331, AC005324, AL117694, AC011442, AL133320, AC007242, AC058791, AC006038, AL359763, AC004832, AC004491, AC006946, AC005522, AC005995, AC005015, AL390028, AC005632, U95742, AL136137, AC018663, AR036572, U91328, AL356020, AL033527, AL133519, AL450224, AC024154, AL136418, AC020750, AL163213, AL389886, AC006160, AC018764, AC010271, AC018738, AL133405, AC004448, AP000547, AC005815, AL137009, AB026898, AF241727, AC024563, AC020916, AF031078, AD000685, AC017004, U85195, AC004797, AC006530, AC008760, AC008649, AL121712, AL031652, AF030876, AL022313, AL136300, AL354993, AC008699, AC005972, AC002554, AE000658, AC011510, AC006111, AB038161, AC007956, AP001052, AC005566, AC004966, AL049843, AL137039, AC008044, AC004934, AL033525, AB003151, AL354816, AL109743, Z98304, AJ003147, AC026691, AL031727, AL008732, AL158823, AL133551, AL137012, AL096870, AC006349, AC008392, AC006241, AL137060, AF003626, AL031848, AC022407, AC083863, AL021939, AC003665, AC004898, AL035361, AC003962, AL117334, AL008718, AL354720, Z83844, AP001752, AP001670, AJ277546, AL096763, AL139396, AC005751, AC009155, AF053356, AL109797, AC005040, AC008543, AL117382, AC007686, AC010527, AC005412, AC003957, AL049709, AC020552, AC018639, AL158830, AD001527, AC011475, AC008738, AF312915, AL133229, AL049868, AC005231, AP000555, AC011465, AL353643, AC007404, AL031905, AC005670, AL031733, AL035407, AC003010, AC005907, AC005952, AP001728, AF104455, AC005572, and N56480.</p>
HOCOC26	510	101514 3	1 - 1279	15 - 1293	<p>BF966811, AI139894, BG118263, BF195527, BF304431, BE313788, BE890485, BE894627, BE314751, BF966263, BF432361, BE735161, AA883980, BF663221, BG106026, AW961104, BG106361, N36835, BF593985, BE778904, BF594016, AL523105, BE314195, W57556, BE384447, AW516745, AA651722, BE464689, BE206345, BE385654, BE903910, BE314758, AA233222, AA081411, AA576915, N43012, AI027450, AA813248, AA434399, AI685850, AI336025, AA434496, AI161302, AI085313, AA632104, AI084094, N30353, W04936, N57768, AI200803, AI333484, N55453, AA422072, BE019744, AA826596, AI084015, AI341871, W80670, AA233146, AI378563, N33349, N62846, AI339805, N34024, AW272713, AI242276, AA554001, AI459956, AI200074, AA635564, AA927412, AA814024, AA632073, AA628055, AA482362, W80669, AA251750, N46055, AA081410, N47028, AA719788, BF436220, N48163, Z45692, N63935, AI032947, Z41359, AI364376, T32008, R08771, AA922239, AI149973, W46253, AI222458, AI674237, BF364286, AA829780, N59733,</p>

						N77753, AW768948, T91056, AA838257, A1056152, N76825, AA375116, N53309, A1632878, AW369966, W88648, AA722692, AW753144, AW166070, A1216252, R08770, AA343770, AW062297, N70614, AW874454, A1749296, N46938, BE842815, AW166050, W88892, R10337, N98262, H63292, AA887202, AA485043, AA918183, BF213866, D58354, T85922, AA902514, and AL122003.
HHEDC05	511	101520 4	1 - 1091	15 - 1105		BF798056, BE898210, BG168649, BE778156, and BG114611.
HODES86	512	101530 4	1 - 1226	15 - 1240		AA063018, AA063458, BE780703, A1444822, AW517939, R02632, AA838190, A1580250, BE043307, AA776646, AC005899, AC007956, AL162615, AC005666, U95742, AC007216, AL138836, AC021876, U07563, AL034377, AC007308, AL021397, AL133448, AC007226, U91323, AC022073, AC006958, AC005529, AC011452, AL121929, AC010422, AP000033, AP000269, AL353807, AC003029, AL357752, AL450226, AP000103, AL133246, AL137039, AC003043, AC004644, AC004655, AC005399, AL050307, AB023049, AC002455, AC005500, U68030, AL031295, U95739, AC005324, AL450224, AC005015, AP001670, AL121675, AC004812, AC010150, AC006312, AC005594, AC004000, AC003070, AL032821, AC006254, AC004021, AC012558, AC008753, AC002470, AC002565, AL118506, AL354864, AL049840, AC008264, AC011495, and AA069510.
HOPJU57	513	101532 4	1 - 1631	15 - 1645		A1801386, A1130729, A1951354, A1346419, AA974428, A1143115, AW162717, A1300949, A1148649, BF569612, AW054866, BF570440, A1206813, A1185787, BE615293, BE410344, A1951681, BF569961, BF685656, A1951257, A1189212, A1203857, A1884988, BE735464, A1268318, N30165, AA724367, A1340361, AW161821, BE388759, AA176575, BE294378, AW083817, A1332853, A1962867, AW148547, AA846546, AW516896, BG036497, BF685742, AW664467, A1097222, AW263822, BE733969, A1193863, AW085571, AW029466, BE877593, AA903789, A1721231, BF058882, A1200195, BE736206, AA719226, A1186165, A1185135, BF569699, AA180753, BF3337640, AA721964, A1921807, AA595181, AA718926, A1140283, A1476531, AA719628, BF671968, A1093516, A1130702, AW874672, BE540302, BE314325, AA744704, AA836082, AA708878, A1612744, A1093408, A1139691, BF125815, BE901001, A1127942, AW157808, BE512823, AA639777, A1141125, W84441, A1074425, A1126845, A1148609, AA993729, A1027734, A1283187, A1148639, AW514401, AW960583, AW151167, A1088686, AA740789, AW613465, AA411261, AA707918, BF341253, BF337384, BE794317, W74453, BF342200, AA503552, AA225290, AA663414, A1985822, AA521379, BF968286, AA479563, AA778259, BF791194, A1879480, A1088256, AA757493, BF675006, A1041962, A1161406, W80350, BF973456, AA411186, F30500, A1143021, AA758705, A1970716, A1190498, A1355378, A1459406, AA062856, N20564, W52133, A1139997, W78166, W45702, BE934387, W60579, A1192165, AA176922, AV748277, BF673324, AA846717, AA651723, AA708138, H18117, W19268, BE796730, AA628056, A1888013, A1074834, AA577396, A1360683, AA393221, H20010, AA180945, AA632093, N35590,

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HVCAC71	514	101534 3	1 - 2211	15 - 2225	AL531715, AL524911, AL538331, AL513967, AL513968, AL521532, AL535009, AL522609, AU131245, BG033342, BE732861, AU123775, AU123828, BE512639, BE271204, BE270981, AI929349, BE901163, BE791770, BG031293, AV759759, BE019767, AU132291, BG034493, BF982477, BE299703, BE906310, BE788844, BE536530, BF980442, AU129887, BG026557, BE281025, BG257133, AW966738, BE878567, BF038336, BF967326, BE312843, BE559997, BG250373, BE278410, AU123662, AV685929, BF701310, AW163400, AA885286, BE731743, BE278525, BE538100, BE560136, BE777712, BE260324, BE882710, AU135115, AW440395, AI290358, BE869232, AU127084, BG035037, AW835061, BG171590, AI806103, BE783330, BF216041, BF028268, AL048517, BG168585, BE869959, BF211634, BF309468, AI572966, BF217684, BE569115, BF130434, BF725661, BF976905, AA306785, AA652324, AA743442, BF571852, AI689767, BE777927, AI003312, BF131121, AL521531, AL522608, AI040166, AI744792, AL538330, BF977349, BG258031, AI493354, AI431952, AL157595, BE974206, BE466004, AI139721, AI188584, AA503712, AA450240, AA861312, BE549795, AI139594, N90748, AA436633, AA165115, AL535008, AI181105, BE855625, AA948158, AW294485, BE536025, BE267993, BF211208, W07594, W70169, AW419332, BE245183, AI360697, AA419100, AI831987, BE773290, AV650249, AV650684, AA961990, N66078, AV650578, AV650246, AA234056, AV650773, AV650519, AA317420, H43456, BF934864, H79111, AA732606, BE241621, AA210764, BF447411, R59256, AA494115, AA376989, AV657836, AV650338, T85952, T29861, AA251969, AA079805, AI628072, N90844, W94361, AA129527, AA026911, AA232668, AI695838, AA337805, AI126527, W70111, AW950187, AI474226, D54979, AA581060, AA453859, F02411, D52775, F06140, AW591856, BF248214, T84801, AA356231, F08428, D54566, AA627894, AI918502, AA131257, AI744927, D53885, AA079631, AI469209, AI589005, AI874218, AI359248, BE464374, AA095541, AA828719,

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HSXCO55	515	101536 0	1 - 2745	15 - 2759		AL527889, AL527888, BF343138, AL525819, BE781680, BG115556, BE732112, AL530486, AU122091, BE884555, AW249027, BE887877, AA702154, BE791388, AA393120, AA195059, AW187982, AA195007, BE787037, BF887726, AA070569, BF881875, BF763234, AW379952, W27989, AA463417, AA463415, D58463, R43806, BE729116, AW379954, R13030, AW000977, BF026502, AW062942, AI334193, BF026989, T66403, AA345992, BE728080, Z44042, BF929103, AA463416, AW848503, AL119081, BF995780, AI886057, BF508517, R97564, BF096090, AA011352, W01495, H52292, AW175839, F34844, AW611799, AV749885, AI872514, AI022690, AA703171, T88769, AA613181, AW976173, W67739, AA412730, T75524, BF090941, BF725485, T33712, AW957599, AW954617, BF096089, AW294156, AI902810, AI902811, AI902809, R83640, F06662, BE832422, R19646, T75487, BF763254, AI703131, BE551051, AV720683, AK022332, and AL021918.
HLWDB78	516	101543 0	1 - 673	15 - 687		BF796831, BF210218, BF701279, AA287742, BF541219, BF666412, AU128625, AU126697, BE545375, AA641789, T79066, R09452, BF351826, AI765200, AW998878, AW001630, R24433, AA278916, BF091528, AK001322, and AK022939.
HPCQU04	517	101556 3	1 - 2931	15 - 2945		BE900483, BE900430, BE793781, BE798566, AI188793, BF792027, BG259644, AW968896, AW005670, BE727050, AU132150, BE903813, AV717509, BE794911, BF440058, BE397846, BG112908, BF312588, BF337644, BG169372, AU117650, BE885591, AU136686, BF344095, AI948456, AW007242, AW974579, AW512338, BE899401, BG258649, BF971664, BF204385, AI824036, BF029478, AW733016, BE616290, AW512086, BG166646, BF305249, BE292944, BF337814, BF205251, AI680132, AW467417, BE275029, BF666066, BE265405, AI201616, BG113759, AI858016, BF666327, BE278101, AI862344, AI768091, AI870673, BF444957, BG180941, BF665980, BF693760, BF438522, AA411615, AW574525, BE748032, BF206162, BG056483, AV756764, BF667931, AA613845, BE927946, BF305222, BF037517, AI174529, AI880678, AI017414, AI688226, AI419240, AW072354, BF220122, BF306174, AW245803, BE894643, AA505693, BF686381, AI349534, BE327569, BE280363, AI629015, AI097281, BF312243, AA046475, BE280085, AI096462, AA205538, AA830698, BG256671, BE617374, AA577517, AA827418, BG110031, AA988140, AI806869, AW401445, AW069828, BF856214, BF849224, AI002518, BF204740, BF309846, BE889784, BE262854, BF968028, AI085160, BF306020, BE298752, AI306461, AI088751, BF683516, AA488767, BG256384,

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HDPAT52	518	101557 4	1 - 1374	15 - 1388	<p>AL046886, BE279307, BE019568, BE391135, AA664125, BG177319, BE384305, BE390284, AW501171, BE889171, BE273776, AW499614, AW500833, BF346622, BE410770, AI371317, AA676873, AI434698, AV703394, BF922390, AA807225, AA721751, AI536606, AA760945, BE163519, AW976065, AI913150, AW747905, BF994170, T90581, BF755836, BF904131, BF084780, BE389227, BG108346, BF828643, AA152296, BG009400, BE778885, D61199, AI378039, BE075569, BF308243, AF056191, AC007050, AC004033, U80745, AL031670, AC005500, AR009990, and AF223678.</p>
HAOSL81	519	101562 0	1 - 2007	15 - 2021	<p>AL521031, AL519782, AL537771, AL532982, BF508854, AL519743, AW957179, BF969852, BE795625, AL526699, BF340693, BE792891, BF238333, BG033672, BG029834, BG104854, BE883832, BE260201, AL521030, BE778826, BE313919, BF115935, BE260258, BE313721,</p>

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HMWTU46	520	101581 4	1 - 1569	15 - 1583	<p>AL535079, AL518148, AL521450, AL517132, AL531229, AL535080, AI040012, AL531230, AI762499, AL524071, BE741293, AL517133, BF027114, AL524070, AI279899, AI246620, BF026440, AI951458, BE746830, BF976082, BE874967, BF975129, BG120387, BE742636, AL518149, BF346931, BE798497, BF971335, BG028042, AL531911, AL536547, BE890981, BF309279, BE394154, BE299905, BE797408, BF237487, BF341190, BE899557, AL531910, AU123377, AI056329, BE886583, BF316766, AW071958, BF794107, BE378387, BF305550, BE304342, BE736150, BG035867, AL521390, BE871118, BE295405, BG252892, BE263295, BF026152, BE900137, BE313624, AL518057, BE866940, BF310604, BE727963, BE741384, BE263729, BG030172, BE269686, BE275888, BF683861, BE263357, BF685533, BE294784, BG036176, AI963529, BE796966, BE746010, BF306510, BE736227, BE891078, AW245424, BE410804, BF686254, AI760877, BG120454, AL521451, BE295095, BG256264, AW391889, BF304851, BE872207, BE879428, BF689615, BE858376, BF973214, AI097074, BG179080, AA449946, BF312801, AA576427, AL138372, BE304566, AW006324, AW009639,</p>



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HSXCQ19	521	101599 4	1 - 1822	15 - 1836	W18188, BF725419, AI147442, AI125755, AI479624, BF971330, AI760369, AW629416, AI569944, AI936750, AI199740, AI983107, AI440301, AW055303, W60994, AW129523, AI709247, AW168252, AW081397, AA932741, F22819, AW339714, AI916699, AI366137, AA010077, BF309912, BF305908, BE298194, BE299230, AA609646, AI521565, BG056312, AA632342, BE222356, AI689599, BG259047, AA411110, AI431516, AA889231, R13519, AI885069, N95625, AW503732, AA878702, BF510349, AW591734, BE146333, AA400446, BF476512, AA868098, R20641, AI797356, AI971324, BE146245, AI810231, BE729192, AI468652, W94707, Z25127, AI492286, AA954572, AW665137, AI857711, AA235851, BE856112, R73152, AW002465, BF003059, AW472891, AI439020, AW964023, BF437333, AI202466, AA400572, AI435394, H02677, AA809174, AA522469, H16169, BF525445, AA377384, H13164, AW029380, BF475393, AA911598, AA601925, AI903140, AI823448, AI270235, H04518, Z28801, AA613532, AW771867, H03230, AW953787, AA165368, AI045450, AW241567, H04020, AI917425, AI336145, AA364034, N88039, N66226, BF886040, AA419377, AI650474, AW237069, AW316806, C01430, AI903143, AB002304, AK025939, AC006486, AC004916, AC004987, AF109718, AC010507, AL133216, AL137028, AC005627, AC004842, AC006328, AC012005, AL035696, and AF270605.

HNOAG06	522	101627 2	1 - 785	15 - 799	BE673717, A1422890, A1631020, A1198891, A1799682, A1433529, BF880961, A1364953, A1198886, AA252264, BE672603, AW956072, A1183458, BE046873, AW150260, AA427927, A1694734, BG058776, BE467480, AA402470, A1633199, AA632367, AA806093, AA205409, AA196509, BE205854, BE205847, AW304915, AA169805, AW370018, A1823501, AA513696, AA722552, AA722543, BE349312, A1887233, A1811053, A1564771, A1360008, AA099151, AA524882, AA702007, AW196886, AU150441, AA524781, AA679745, AW273758, AA483959, AA678402, BF476223, A1824716, BG150152, AW205888, AA192447, R69106, AA181543, A1866935, AA860623, A1129193, BF063495, AW805414, A1879840, BF941974, T94794, AA171643, R69101, T05573, A1015756, AA724238, A1752255, A1984809, R69224, AA312143, AA992923, A1936603, T65801, AW794565, AW304119, R69216, AL118882, AA902788, AA223492, A1983773, AA610089, AW090785, AW608233, A1243278, AA678411, A1720402, AW204601, AW581210, AA335789, BF874179, A1824267, AA723216, AA806903, AW207077, BF877796, A1611264, AA480445, N67898, BE207384, BE148913, BF590649, A1192276, AW205765, AW800019, BF110206, BF877800, BF772862, BE173668, BF740070, AA099249, BE936956, BF871257, AW381337, C01296, BF831318, AW799997, AA579327, AA814839, AW368017, T65920, AA026347, AA026572, A1590020, A1682707, A1185665, AW264186, AF016370, AF001947, and I80064.
HE2KN09	523	101635 1	1 - 1340	15 - 1354	BE799462, BE792498, BE743096, BE797705, BE887174, BF307766, BE260259, BE621561, AW409694, AW973501, BE269774, BF972124, BE296846, BE296277, AW163484, AW157422, AA524968, BF805191, AW409789, BE792849, AW149826, AW439315, A1435067, AW082947, A1982972, AA855083, AW027529, A1081884, AW083431, A1004310, BE262282, A1748899, BE048047, A1188316, A1355876, BE797300, A1302238, BF194752, A1275061, A1459896, AA961666, A1418038, A1139136, A1079833, A1278587, AA865815, AA865641, AA488886, BF772502, AW192032, BF893782, AA708607, A1420439, AV656377, A1936078, A1863272, AA662188, BF893776, BF675574, A1826981, AA662145, AA704357, AW953954, BF926934, BF900915, BF772435, A1140216, R60985, BF858115, BF771180, AA987295, A1202396, A1199200, BF900921, AA085191, A1199350, A1220804, A1122546, A1220749, A1803886, AW954783, AA365050, BF900923, AA648815, T30457, AA642369, BF058583, AA352082, BF893785, AA255581, A1813408, AA935152, T17207, BF213877, F35404, Z39091, BF771380, AA885886, AA262788, BF893778, AW615702, AA476571, BF893786, BF973807, AA448893, BF893779, A1570692, AA916287, and AF095446.
HISDH58	524	101674 0	1 - 1666	15 - 1680	BF439940, A1857437, A1278048, A1857436, AA507045, AW273440, BF527162, AA493364, AW297803, A1292326, R47896, A1364487, N66632, A1394536, N58844, BE147471, A1361304, AW594191, AA347485, AA357233, N80769, A1374919, AA357422, H08044, R47895, AW189621, BF839616, AW439143, AA887910, A1591191, A1279880, A1280275, AW594635, W65494, A1797532, H07938, BE048179, W65483, A1123607, BF955980, BE149297, AA347486, AK024697, and AF060570.

HSPSB62	525	101676 8	1 - 1109	15 - 1123	
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HE2FR37	526	101693 9	1 - 723	15 - 737	<p>BF949789, AA488860, AA319438, BF679533, AW118663, BG251769, AI911406, AU157678, AW502897, AC005495, AK024359, AB020629, AC005922, and AF119885.</p>
HBJHU33	527	101705 1	1 - 1625	15 - 1639	<p>AL514228, BE731218, AL529655, AL529654, BE797337, AL514227, BE794724, BG110127, BF966631, BE893282, BE742915, BE890123, AW953655, AL528742, AU133581, BE619851, BE881083, AV705155, BE545070, BE908044, BE280723, BE866981, BE905326, BE315420, BG250751, AW361850, BG033740, AW408348, BF966374, AI133679, BE536852, BF694020, BG107184, BG123009, AV646950, AW863803, AW574744, BE536691, BE535711, AW361878, AA205799, BF033183, BE855740, AV752620, AW361703, BE619538, AW235125, BE779606, AV653849, AI953870, AV650365, N51687, AI679909, AI683840, AI860985, AI935673, BF732945, AW361713, AW149707, AI690828, AI613283, AI458820, BF947707, AW293561, BF674450, AA486511, AU154842, AI954922, AI313137, BF986327, AI673750, AI679402, AA424014, AV718741, AA725579, AA099053, BE395738, BE222658,</p>

HCOQZ88	528	101722 7	1 - 2468	15 - 2482	<p>W24128, AA142864, BE892291, Z36957, AW026668, BF103657, AA866169, AA314427, AW293557, AI216241, AW663736, BG054943, BF095961, AA485906, AA505738, AA136784, AA446868, AI055812, BG032683, AA542846, AA037428, AI887206, AW084907, AA933852, BF095880, H49206, AA043415, AA845713, BE927451, H39832, AA037532, AI335198, AA594615, BE887238, AI680166, BE895599, W31664, AA875897, AA443821, AW340363, AA278776, AI365655, AI923981, AA622493, N34828, AA425430, AA424069, AA883098, AI476741, AA028909, AV653144, AA370723, BG027100, AW075588, AA923558, BG176640, AA954465, AI828409, AA586973, H03187, AA446982, AI309555, T40967, AI267929, BE773992, AI285135, AI439919, AI304714, AV696060, AI565628, BF990423, AV697144, AA772452, AI689153, AW402999, AW512487, AA136668, AW170531, AA857533, H30435, R91467, AA554338, AW239065, AV688783, AI300683, AV685469, AI244508, AI186551, H87047, AW887072, T34519, BF213940, AV683074, R27376, R31690, AW769530, BF094930, AI024538, AA098897, T30817, R27377, R81710, BE277562, D25678, AV684114, AI144129, BE465689, AV685254, R81711, T69023, AA953603, AA431940, AA351447, AI806267, AI140225, BE773982, AI041191, AA902603, AV656877, BE834245, AI538000, H22955, F32568, H87710, T82843, D52941, AA558035, R24537, T34501, AA452178, AA507290, AA506474, AW470621, R56822, N55849, AI265996, AI025992, AI073910, AA425294, BE763210, AA946889, AA693413, AI914460, D79723, AW889486, AI886445, AA360213, AI826456, AI682452, AI370704, N99006, AA888415, D79777, AA029018, BE326907, AA370566, BE385434, C15445, AI630692, AW242261, T35686, R36403, BE672749, W15588, R31732, AA370567, BF813567, BE387515, AL528741, AA331136, AK001775, R24642, H30386, N72054, and AI824235.</p> <p>BF528706, BF511685, AW009394, BG105519, BG254081, AW960390, BF525928, AW007097, AW188653, AA621896, AU158667, AI308853, BF691095, BE907379, BG023998, AA024539, AW629142, H92979, W68163, AW182327, BE501512, AI832718, AI823734, AI770031, BF215995, AA449738, AI096535, AI745277, AA863106, AI281067, AA584416, AU154308, BF086852, AA308212, AI359520, BF059115, W38383, AI139547, BG031495, AW956354, AA761360, AI751095, W73695, BE927188, AA918091, AI419956, AI799464, AW665559, W95446, AI309249, AA583148, AA428071, AA021101, BF0833221, AI026784, AI539181, AI039026, AI378040, BE710102, AW072311, AA676645, BE464465, AA593067, AA039665, W79256, W73924, AI079839, AW269759, AI805856, AA922123, AI473815, AI291953, AI829735, AI056216, AW272430, W94907, AI206193, N59411, AA025309, AA427955, W31744, AA927514, H68449, AA705665, AI932529, W95397, AA833519, BF763329, AI911828, AI217371, AI276807, H68769, BF241187, AI699445, W26803, AI471303, H94817, AI679026, AW088135, AA431304, W28691, BE927265, AU152091, AI453671, W88572, AA448595, W04520, BF763314, N46969, BF940469, W60394, AI420105, H74186, AA913911, AA913681, AI799093, N34049, AA133712, BE774604, H94831,</p>
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HNTSV21	529	101737 4	1 - 1245	15 - 1259	AL134400, AA654357, A1659394, A1686014, AW410038, A1093582, AA652206, AW273447, AU146982, AL514659, A1963016, A1042174, AW965846, AW574750, AA654359, AA703770, AL517118, BE542873, AA182023, A1818522, AW072960, AA884895, A1077955, AA209362, AL515439, AW887824, BE539538, AU154982, N52207, AW157715, AA187876, BF000792, AU160449, A1915409, AA854654, AA934909, AA887240, AU159619, T57068, BE299580, AL518518, BF035823, AU158972, AU147868, AA464944, AA651945, AA148257, AA828521, AA190869, AA600031, A1088602, AU146486, A1245918, AA515504, W68695, A1003584, BF848727, BE299486, AU151912, AA932098, W68788, AA810464, AA831254, AA204836, A1073864, BF062816, AA630734, W37334, W72396, AA877763, A1239507, T57701, BF368824, AW519295, N93945, H28712, A1933713, BE617824, A1139316, A1299318, AL538396, AA909936, BG261335, AA806474, BF154399, AA169168, AA622934, W37369, AA876537, H39737, AL516437, W37117, BF764209, AL517155, AA541371, W65445, BF803857, W65444, H64967, C75187, R42343, A1620320, AW013842, W02224, C17924, W37370, BF764242, A1567004, BG106798, AW182900, BE618766, H66514, T06029, C18528, BF447193, H26685, BE645007, AA148256, BF812783, BF059296, AA709429, BE877546, BF958849, M78962, AA669602, AW581222, BE882709, N94420, AA357908, W26586, BF913671, F18903, T85737, BE58416, N69743, AV750626, AV736810, C17428, A1701304, BE619606, A1675840, AA486988, R11416, W40444, BF032212, AA557475, D53287, BF378126, AA486987, D58716, AW572367, C18873, F29285, AW673620, A1151194, AW983548, BG057603, BF795208, C01858, BF957266, A1475992, D79148, AA565388, A1720256, AV752041, BE181609, A1299319, AW057940, C18872, BE700845, A1049861, BF941688, AA968944, AA844560, BG105512, AA010945, BE717982, BF958883, AW513179,

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HNORH33	530	101746 1	1 - 2630	15 - 2644	AUI118050, AUI124650, AI804495, AL515217, BG254700, BF793291, AUI139800, BF221530, BE614349, AUI137694, AI435930, AI635319, AI927302, BG036151, BE780429, BE883539, BE783242, AI802380, BE222029, BF670327, BF035253, AW189345, BF690809, BF701218, AW138746, AW571851, AV758758, AW058381, AI859728, BF832574, BF832584, AW075704, AI755119, AA418590, BF981254, BF793595, AI984163, AUI151135, BE780049, BF114722, AI961692, AA452161, BE779478, AUI149020, AA418574, BF103811, AI004693, AUI153522, AI351372, AW500112, AW261890, AW410234, AW136841, AI634166, AI631474, AA827216, AUI128765, AA452392, BE966378, AUI153938, BE349597, AI671386, AI380332, AI739557, BG248885, AL047192, AI378011, AI094228, AA621081, W39674, AA993180, AI244135, AA447738, AA707268, AI568172, AA448963, BF812945, W27396, AW139700, AW341254, AUI156536, AI610449, AA680213, AV692709, AA074826, BE613637, BF379914, AA926753, AW369696, AA455981, H41985, AW902483, T65313, AI375902, AI290502, W27884, W44815, AI932816, AW902476, F09884, AA903638, AI12140, AW902481, AW902478, AL515218, AW955309, AW953636, AW902479, BE644837, AI638081, AW770216, AW902461, R24937, AW902455, AW235766, AW006582, AW902734, H66548, BF094361, BF239823, AW902736, AW902737, AW902730, RS2606, BF379905, AW902720, AI522293, AW902469, AW902729, AA453670, AI581037, AA215671, F06886, AW902703, F06870, AA354203, F12257, BF379886, AW902732, W23553, C17550, AA449690, AW467583, AI694910, AA732285, BG252934, AW902470, BF001525, AA215779, F06869, AI872765, T66073, R52549, D78825, AA188898, AW063992, R45200, C03668, H66132, BF930789, AV738729, AI829792, N55752, AW902721, BG171769, AUI138715, AW015422, AW198067, AA355665, BE929397, AA235264, AI910343, AA618016, AL121142, BE391223, BG120678, BE720589, BE939651, AI093996, AA358989, BE384185, BE882107, AA306135, BE408532, BF904404, BF376408, BG026722, AI904692, AUI48473, AW385823, BF326100, BF085286, BG176691, AL036570, AW770803, AV731531, AA639867, BF000181, BF741199, AI982808, BE389430, BF957940, BE388275, N44960, AI193855, AI132637, AF070656, AF090430, AK001259, AL162272, AI295622, AC010518, AI295621, AP000535, AP000536, AI295618, AI295620, and AI295619.
HUIFEF35	531	101756 5	1 - 3361	15 - 3375	AUI25622, AUI124809, AUI19197, AUI20605, AUI131784, AUI130566, AUI25444, BE796658, AUI139843, AL533184, AI582238, AUI35468, AUI24323, AUI25845, AUI25084, AUI24685, AUI118785, AUI24233, AUI135742, BE898995, BE899194, AUI137120, BE741762, AUI138659, AUI138317, BE747802, BE747369, BE613292, AUI138431, AUI139369, AUI139849, AUI137367, BE796097, BE869682, AW074187, AUI133161, BE741675, AA669462, AA886707, BG250343, BE621596, AUI134160, AUI136435, BG250404, BG170946, AUI117879, AUI136553, AUI139661, AUI134907, AUI133516, BF343126, AUI136570, AUI27766, AUI28322, AI917911,



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HMVDD81	537	101808 0	1 - 1431	15 - 1445	AI188279, BF982051, AW968539, BF112083, BE540598, W07118, AU123076, AA843407, BF574921, AI097335, AI201880, AI742837, AI539345, AI142307, AA570035, AI391562, AV757431, BE669685, BE958108, AA443227, AI367431, AI148021, AA578894, AA811212, AA255682, AA262594, BF475794, AI085416, AI819361, AA493141, AV757735, AV758388, AI148678, AI634525, AA443189, AI244745, AI668949, BF986084, AA527636, AA327805, T61116, BE301362, AI093951, AA465621, N77955, AA455241, T48329, BE183133, BE535556, AW732888, BE567198, AI769272, AI783690, BF131073, AI825568, AV738966, BG031168, AA129447, AW166794, AA282430, BF154836, AI468825, AA770313, T48328, AI474745, AA133846, AI956092, AI540687, N56553, AA096262, T61230, AA095499, AA089548, AW028104, AX048069, AF161477, AL031133, and AK001156.
HVVDH50	538	101822 6	1 - 2331	15 - 2345	AL521726, AL521996, AU123746, AL521995, AI609202, AU117000, BF974185, BF527407, AL048042, AI807456, AI951181, AI218661, AI799636, AU125082, AA554623, BG179365, BF975404, BF972419, BE733203, BF981524, BG179070, BG255004, BE868042, BF339051, BG036217, BG252081, BF339341, BG255011, BG178332, AI676184, BE621953, BG032707, AI635952, BG119610, BF971762, BG169134, BG250093, AW950204, AA907151, BE049474, BE272619, BG256163, AI905222, AI921071, AL138249, AI923213, AW732273, AI248348, BF127623, BF836270, BF698110, BE295255, AA565395, BF837991, BF345537, BE390767, AA654451, AI808854, AI337977, BE897041, BF525931, AA433931, BF724176, BG164450, AI025276, BF827230, AA430586, AA868692, AI055856, AI571884, AA434234, BE871447, BE785049, AI628309, AI193144, AI446480, AU122957, AI027512, AI890381, BF818545, AI338177, BE869320, AA203693, AA477057, AA434320, AI128008, AW401597, BG059688, AA948036, BE042674, AA772594, AA101156, AA311960, BE697381, AA074268, BF205674, AA503629, AA232550, BF339165, AU148816, BF805272, AA063610, BE925432, AW262115, AA476946, BE789123, AI752696, AW074189, BF971680, AI193067, BF769452, AW409987, AI910092, BE146092, AA148767, AW938642, AA405733, AV685539, AA218698, AA152261, AI139613, AI612782, AA402501, AW104644, AI102669, AI309042, BE870473, AW272879, AW263843, AI609066, BF893081, AI720733, N80732, BF209925, AI752697, F37360, AA586858, R53601, AU143943, BE621441, N99159, AA418836, AW960530, AA515096, N94377, W60430, BE614163, AA150287, BE967097, BG026184, W52952, AW001267, AW402003, H24950, AW874376, N23886, BE697359, AA418981, H18111, AW518137, AA292501, AW080655, AA358993, AA150223, H25769, AA310084, W89085, AA135040,

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HNNBT57	539	101824 3	1 - 388	15 - 402	BE383564, BE397201, BE270063, BE513540, BE409336, BE047639, AW732993, AW406595, BE397845, AW405264, BE386216, BE396554, BE390079, BE410519, BG024694, BG104428, BF975277, BG106009, BE387960, BE397165, BF664125, BF663807, AW405242, BE398026, AA280941, AL521138, BE793757, BF237876, AW407230, AW604723, AW858525, AW858526, AW392670, U46347, BF873833, AW971745, AL119439, AL119484, AL043003, AW804686, AL119444, AW363220, AW384394, AW861889, AW858455, U46351, BE695785, AW861944, AL119457, AL119319, AW604726, AL119324, U46350, AL119391, BE705903, Z99396, BE705906, AW577135, AW372827, AL119497, AL119443, U46349, AL043147, AL134519, AL119363, AL119355, AL119483, AW877209, AL134530, BF868684, AL119522, AL134531, AL037205, AL119401, AL134132, AL134527, AL134528, BF868697, U46346, U46341, BF868687, BE705905, AL119341, AL119335, AW392669, AL119418, AL134533, AL119399, AL119396, AL042544, AL042542, AL134538, U46345, BE705904, AL119496, AW861954, AL042614, AL043019, AL042989, AL042450, AL042984, AL042965, AL042975, AL043029, AI142134, AL042551, AL119464, AC015651, AX046339, AX046374, AX046338, AJ279014, AB026436, AJ251859, AX030435, AR054110, AR066494, AR060234, AX046357, A81671, and AR069079.
HCONJ11	540	101845 9	1 - 2009	15 - 2023	AL522559, AL522558, AW969064, BG233865, BG030600, BE889708, BG027819, BG118961, AV698953, BF224259, AI638156, AI290803, BF446299, AI419082, AW966671, BE925770, AW966263, Z78358, AA070060, AV662322, AI951098, AI808829, AI401261, AI612769, N22328, AA456113, AW205713, AA455619, AW195832, AW237640, AI275880, BF976106, AA504499, AA180297, AW966854, BF346197, AI569407, AA235048, AI687931, AI927749, AV753340, AA504579, AA215415, AI401397, T93269, AV712384, BE547557, AI862207, AA180296, AW296514, AW628794, BE874202, AW661779, AI679475, AA884581, AV706547, AA065264, H40558, N23824, AA065265, AI630385, AV696675, AI240949, H18331, AW074627, AA354465, AI284362, BF083548, AW237693, T91668, H05112,



HCQAW68	541	101850 1	1 - 1639	15 - 1653	<p>AI916346, AA338621, AI038773, T05637, H01584, AW383167, BE150899, BF083457, AA354772, BE933046, AA902865, AV714866, AI440452, H05577, AA296018, AI748825, AI206293, AA333384, BF830975, BF994371, AI306730, AA535653, AA360488, AA331533, H18361, BF984044, BF355809, BF830973, AA328182, AV697587, AA693368, AA319405, AI242815, H41116, AA279723, BE933047, BE379067, AI905154, AW999022, AA642772, BE814388, BE267160, BE172053, BE813289, N56330, BE813347, AI432999, AI702787, BE348655, BE172200, BG109264, BF345872, AA385404, BE762408, BF830964, AA215341, AW844104, AW835668, AF107463, AF083385, and AL109824.</p> <p>AW964813, AW043579, AW606602, BF196135, AW606592, AA808598, BF996827, AW173026, AI417159, AI089360, AI379044, AI027938, AA479468, AI521274, AV706893, AL524145, BF446349, AA470626, AA847893, BF112090, AA418271, AI950883, W31503, AI741193, AI333775, N49409, AA009947, AA456887, AL524146, BF221648, BF903968, AA505961, AW183055, H63962, AI262232, AA778546, AA478576, AA885985, AI972464, H63689, AW193647, AI468599, AI703182, BE090091, AA255751, AW969281, AW292700, AA173415, AA173505, R94806, N49499, W94077, AI678423, D30922, BF515916, W94078, AA417796, BE261235, R94723, AW514056, D31568, AW807806, AA478711, AA335529, AI004158, N87822, N47844, H94985, AV689516, AW614654, AK000010, and AC006557.</p>
HVVCY25	542	101877 2	1 - 1399	15 - 1413	<p>BG023883, AL516949, BF347806, AL516883, AL518952, AI831226, AI809120, AI828009, AI951751, AI890506, BE784419, AI983622, AI873523, BE536902, AW195804, BF929565, AI758765, BF892881, AW082032, AV722018, AV721642, BE873168, AW673510, AW966492, AI680233, BE622697, AW512963, AW151053, AW575070, AW731624, BE301818, AW770878, BF940658, AW594313, BE042515, AW514330, AW873970, BF892879, AI018196, BG257923, AA504272, AI934931, AA285329, AI754812, AI352152, AA554954, AI858723, BF347861, AA599595, AW305201, AI201775, AA631300, AW088804, AI472788, AW630681, BE465256, BG254495, AW628145, AI370914, AI055877, AA504444, BG150272, AI860093, AW966486, AA244120, AW051543, AI984410, AI968419, BG009102, AA995868, BF448155, BG231874, AW590016, AW069094, AW341761, AA807620, W60136, AI912098, AI825834, AA115402, AI693788, AI660028, AI962577, AI239601, BF476376, BE618915, AI935466, AI824532, AI961824, AA158486, AI351095, BG057236, BF852585, AI280594, BG248352, AA714530, AA504208, W95488, AA182645, AW512106, AA244119, BF593733, AA158982, AW085867, BG056998, AI768569, BG056799, AI160338, AW151479, AA983670, BG027888, AW170312, AI927318, BG029078, BF764366, H67061, AA888470, AA693357, BF107253, AW241692, BF848473, BF765539, N73591, AI968560, H68143, AI969794, BE618251, AI950776, T28359, AW197568, AW196129, AV746683, AW370116, AI950669, AA159041, N90556, AA302337, AA333143, W95526, BE265830, R42567, BE867690, BE247468, F36408, BE698776, BF815729, AI749001, W20202, AA332441, AI749534, R18363, AW589753, H91599, AW374904, BG023829, AA379738, BE243065,</p>

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HODBV21	545	101894 3	1 - 1322	15 - 1336	<p>AC087084, AL122003, AL031650, U95742, AC018769, AL137800, AC005529, Z82216, AP001726, Z83840, T59418, T59474, T69304, T82398, T87753, T89737, T89835, T84202, H27117, N51203, N59462, N72039, AA554915, AA595010, AA633011, AA688399, AA815033, U51697, AA283742, AA290846, D19918, T61710, AI340561, AI345438, AI349175, AI475624, AI761176, AI919207, AI936126, AI936180, AW008945, AW071366, and AW150493.</p> <p>AL527298, BE619820, AI129337, AI400075, H95260, AI700915, BF924322, AW969245, AI962975, BG259287, AI694477, AI378304, H15457, AA838155, AA984755, AA996230, R60228, H65654, AA173556, AI637647, AI637886, R73942, AA699726, AF150906, H11463, R50781, R41575, H40319, AA468552, R45631, R38492, R09151, AL527344, AA768602, BF846028, BF735013, BF871018, BF872092, BE671302, BF833910, BE700118, BF932703, BE083790, AI198056, BF800399, BF871407, BE768340, BF879885, BF846257, BE767620, BF735172, BF744458, BF901172, BF879815, BF093944, BF901176, BF879761, BF084871, BE816989, BE813729, BF990339, BE083901, BF869861, BE816987, AW009660, BF901174, BF734953, BE835951, BF902928, BF879763, BE816846, BF991450, BF901178, BF854789, BF987970, AW878658, BF992580, AW878662, BE167842, BF991459, BF992589, AW610318, AW610312, AW610296, BF943313, BF082459, BF802582, BE835167, BE828563, BF902012, BF735396, BF961425, BE816849, AI371163, BE926219, BE925447, BF082326, BE083742, BF991442, BE170227, BF739235, BE698127, BF910419, BF991448, BF360270, BF735162, AA778231, BE928009, BF890885, BF872350, BF881126, BF992452, AW664582, AW889695, BE676920, BF961424, BF854717, BF902020, BE693646, BE813904, BE835952, AW806879, AW381871, BE766552, BF991174, AW894560, AW885979, BG059105, BF987977, BF906303, BF735452, BF870540, BF882873, BF735012, BF902190, AW866365, BE075323, BF870413, AA551773, BE084641, BF881962, BF926533, BF918732, BE841188, BF857701, BF873835, BF896718, BF770378, BE082529, BF899679, BE939555, BE825641, BF769485, BF870539, BF821670, BF992588, BE714111, AI248811, BE835078, BF332061, AI907428, BF879802, BF998998, BF879770, BF961429, BF735089, BF848413, AW360793, BF813376, BF881131, AW360794, BE080872, BF373720, BF857702, AA973283, AW369847, BF817385, BF872081, BE835954, BF879768, AW945566, AI174991, BF081825, BF771727, BF958071, AW945550, BF880810, BE841743, BF878705, BF816766, BF913307, N44337, BE719423, BF930433, AU142153, AI904717, BE002200, BE940156, AW384408, BE935089, BF983887, BE926453, BF096173, BF845026, BE619501, BF951386, BF954993, BF870677, BE164590, AW858568, BF926355, AW858501, BG116215, BF825326, BF766721, BF957057, BF958360, BF815961, AW970506, BF082331, BF816756, BF923904, AW367657, AW604760, BE180466, BE835974, BF879712, BE674905, AW894887, BF958859, BF998209, AW861939, BE813820, BE816130, AI904206, AW607448, BF081800, BE816993, BE816518, BF839269, BF329111, AW754352, BE011715, AW392799, BF092257, BE932890, BE833370, BE700094,</p>
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HCHMD81	546	101932 6	1 - 1554	15 - 1568	<p>AW861913, AK000096, AY007790, AF074968, AC004537, AY007791, AF130094, AX013777, A86999, AF203815, and AB001915.</p> <p>AL529620, AL529619, BE744015, BE747322, BE746350, BF205003, BE747118, BE908895, BE780894, BE887588, BG029921, BE793120, BE281010, BE613377, BE887933, BG111499, BF035570, AV753223, BE265037, BF795403, BE612653, BE777993, AA129762, BG054862, BE730582, AI125342, BE547829, BF036049, AW960508, BE745144, AI590699, AI346096, AA583356, BE514905, AI598193, AW009912, BF183210, BF432359, AI480163, AW006668, AA292193, AA418608, BF665501, BG054714, AW954457, AA418543, BE262055, BG031938, AI262702, BE869278, AI359222, BE208201, BF432549, AA633176, AA101128, AA399088, BF036009, AA133256, BG248132, AW071083, BE537466, BF036189, AI205340, AA488103, AA029080, AA063607, AI359677, BE868999, AI127963, AW304168, AA402472, AA443283, AA121291, AA861789, AA418176, AA935842, AA917902, AI096454, AI024667, BE856515, BE019926, BE871651, AW029371, AA426544, AI799596, AL047195, AI346792, BF744142, AW250319, AA723829, AA082793, BE790822, AW374337, AW473865, AA314304, AA195730, AA844660, AA417925, AW104128, AI185001, AI537323, AI280860, AI418526, BE250752, AI393763, H56715, AA622209, R15437, AA446813, AA522826, AW515856, AA431799, AW205257, T88899, AI128624, AA552511, AA649767, AA613567, AA405644, BF939409, AA476700, AI240925, W81316, R46575, AA988242, AI925008, AI381644, N91804, BF183446, BE311809, AA877114, AI857773, AA160907, AW166635, BF684951, AA364097, BF033121, BE909517, AA036690, AI335911, AA380929, AA992995, AI419093, AA380930, AW250991, AI880179, AA339665, W31238, AI587468, R34449, AW954454, AA333613, T84437, BF325684, AA886640, BE280299, R34340, AA886061, BF691020, W93219, H56638, AI758540, AA121354, AI566571, AA293824, BE698642, W81315, AA389674, AW882409, BF667507, AA159313, BF889412, AA811684, AA649819, BE939424, AA405492, AA248837, AA583274, BE779123, BE787702, BF888761, W93218, AA159937, AW797027, AK025929, and AF211970.</p> <p>AL535593, AL525453, BE729550, BE799612, BE792749, BE792753, BE741908, BE271258, BF570265, BE901401, BF689236, BE797224, BE741382, AL525652, AL533821, BF027373, BE792123, BE727659, BE735258, BF568922, BE728096, BE616789, BE562617, BE794820, BE732845, BE735121, BF027083, BE797510, BE300117, BE741585, BE793408, BE799572, BE378818, BE300256, BF027383, BG105877, BE729032, BE793289, BE795579, BE262442, BF965901, BF975680, BG109788, BE792042, BE277131, BE792391, BE733017, BF976699, BE262774, BE734804, BE734752, BF026490, BE253895, BE729830, BE735012, BE792051, BE901161, BE744853, BF690455, BE792942, BE616834, BE796179, BE735150, BF664529, BE728178, BE732376, BE614830, AL518947, BE792282, BE792499, BF310738, BE795725, BF973007, AI857766, BE562383, BF686079, BG112735, BE274700, BF685034, BF312079, BF975845, BE744754, BE742292, BF969003, BE560133, AI951578, BE253894, BE735111,</p>
HAZAR95	547	101933 8	1 - 1438	15 - 1452	<p>AL535593, AL525453, BE729550, BE799612, BE792749, BE792753, BE741908, BE271258, BF570265, BE901401, BF689236, BE797224, BE741382, AL525652, AL533821, BF027373, BE792123, BE727659, BE735258, BF568922, BE728096, BE616789, BE562617, BE794820, BE732845, BE735121, BF027083, BE797510, BE300117, BE741585, BE793408, BE799572, BE378818, BE300256, BF027383, BG105877, BE729032, BE793289, BE795579, BE262442, BF965901, BF975680, BG109788, BE792042, BE277131, BE792391, BE733017, BF976699, BE262774, BE734804, BE734752, BF026490, BE253895, BE729830, BE735012, BE792051, BE901161, BE744853, BF690455, BE792942, BE616834, BE796179, BE735150, BF664529, BE728178, BE732376, BE614830, AL518947, BE792282, BE792499, BF310738, BE795725, BF973007, AI857766, BE562383, BF686079, BG112735, BE274700, BF685034, BF312079, BF975845, BE744754, BE742292, BF969003, BE560133, AI951578, BE253894, BE735111,</p>

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HMWFS51	548	101940 9	1 - 1320	15 - 1334	BF969245, AA173578, A1623909, A1436773, AW152545, BE350964, A1091423, AA156831, C06043, A1685115, AW015909, A1025446, A1376102, AA013471, BE070084, AA505737, AU156085, W95863, BF435796, BE328444, A1382118, BF798369, BG036794, AV737751, AW629458, A1436014, A1092902, BE072466, A1689834, BE069960, A1433780, W79207, AW793537, W94960, N57658, A1797126, A1435957, AW662344, A1435537, AW514619, AU152100, BE070083, A1005221, N44706, AV654242, AA243362, A1810227, A1983423, N3535, AA279720, A1424360, W78164, N58295, BE349934, AA156725, BE070087, AA668749, BE645023, BE045862, AA935586, AA729239, AW628636, AV753447, AW841041, A1219778, A1301267, AW793522, C15201, BE503068, A1805020, AW973299, A1246381, A1538418, AW020745, AW856544, AW861090, F05818, H08676, AA829728, H08675, A1342957, AA897674, AW865468, C15226, AW865399, AA828678, AA173537, AA367385, AA366918, AA887279, BE933914, AA887543, A1803050, AA935837, F02064, AA574046, A1648629, T29428, AV725640, A1370502, A1267193, AA846991, AF205588, AL161931, D31763, AL022345, and AF086531.
HE8SD82	549	101958 5	1 - 1284	15 - 1298	AU117899, AL523320, BF345052, BG035675, AU123267, AL535510, AW978848, AL517300, BG122197, BE883414, AV726729, AL517301, AW934905, AW934883, BE885932, BF967608, AW934882, AW934759, AW934769, AW008150, AL534630, BF930215, AA769069, A1833047, BG009563, AW385267, AW195874, AA878781, AW152218, AA195134, AA404255, A1679387, AV716740, BE698880, AW085006, A1376586, AA404705, AW277051, W27623, A1679896, A1199874, AA829504, AW516201, AA976055, BE698896, AW078883, BE698899, AU144597, AW439351, AV739227, AV687632, AA864785, BG011034, AL045947, A1208680, BG036037, BG150227, AW512459, BE734440, A1382426, AW103648, BE773454, AW884384, W26490, AW337631, A1537230, AA031898, H96174, AV755694, A1914723, D82403, A1632037, D81392, AA630979, R75723, C01785, A1583309, BE210899,

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HSPSN08	550	101960 8	1 - 1434	15 - 1448	<p>AL529556, BE275161, AL525256, AL525428, BE270851, BE747850, BE907680, BE274675, BE396347, BE383709, BE791794, BE791216, BE791116, BE898946, BG111754, BE731240, BF311352, BE744294, BF027378, BG116157, BE902855, BG035101, BF311652, BF304518, BE622749, BE901352, BE270783, BG033417, BE796984, BE887781, BG036324, BE728278, BE740226, BG251499, BE253429, BG031264, BG166121, BE385619, BE898914, BG122835, BG027398, BE277682, BF348276, BE408738, BE386072, BF689457, BE409364, BE276501, BE897011, BE383694, BE314660, BE872566, AI734924, BE272188, BF685923, BE388961, AW965811, BE545074, BE388752, BE560583, BE730119, BE622437, BE384887, BE276827, BF526457, BF982080, BE391754, BE389407, AW955331, BG120252, BG178757, AI131174, BF940949, BE075017, BF983088, AI348348, BE388757, BE296680, BG122702, BE387746, BE388818, BE280930, AI337418, AW003439, AI936833, AA528109, AI660810, BE514006, BE388241, AL528155, BE018060, BF115419, AI951600, AI860268, BG111026, BE314992, BE279373, AI523256, AW172989, AA811385, BE301469, BE264092, W85909, BE875052, BE269132, BF672164, AI092815, AI052411, AI075374, AI004228, AA315427, N34204, AI276884, N35255, AW575874, BE513272, AI076432, W07718, AA041363, W22031, AI034149, AI419051, W47393, AA564743, AW276197, N36107, AA157500, AI306647, AW006347, BF923718, BF700871, AA448228, AW241251, AA552389, T89718, AA035231, H50097, AA593303, AA158075, AI280017, AA911808, AL528156, BF035863, AA305991, N68263, AI299883, H69611, BE514112, AI909896, AA041311, BE775235, BF217224, AA312899, AA806868, AA186623, BE410275, AI126022, AI028645, AW878919, N68972, AI417439, AA469095, AA223714, AV743734, AW379427, AI264538, W78924, AA035295, AA565129, AA448372, BE740045, AA223704, AI285728, AW952388, N26673, AW518624, AW407735, F36877, AI246599, AI283366, AA156885, BE894082, AA993359, AI583549, W65291, AA860587, AI923942, AA325478, AA767502, R51656, T16239, T16233, T08850, AA903877, T09297, AA157194, AI925332, BF206384, AA353896, AW732520, R51565, T09308, N69383, AI583418, R02096, AW769515, N39826, AA337970, BF799057, AI963032, W47423, F17318, W65421, BF980665, T08262, BE733440, BF033895, R35495, T89815,</p>

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HVCAH24	551	101974 9	1 - 592	15 - 606	AL532297, AV653346, BE782497, AV764595, AL537232, BF245697, AV714321, AI114567, BF213603, BF244698, AA536147, BE787762, AI830831, AV654419, AW972189, AW072030, BG028414, BE618411, AA318903, AA383707, BG108225, BG249004, N78477, BF246065, R60406, AA218559, AA904549, BE869225, AA318951, BF575136, AA319119, BF089616, AA371452, AW957400, W25827, AI525195, and AC002394.
HCEBF54	552	101977 7	1 - 862	15 - 876	L44530, AA322034, T79009, W57762, H19278, T25356, BG250889, AL079457, AW372349, BF770494, R76041, AW846865, BE826118, F07530, AF207550, AB032993, and AJ297364.
HPQAD21	553	101986 9	1 - 259	15 - 273	AA780355, AI582384, AA037231, AI962919, N52620, AI096763, AI560226, N23609, AA569965, AA069437, AW029605, AI678797, N53358, AA929063, N41010, N93863, AI342701, AI219156, AA149848, AW517179, AW341952, AI186941, AW028880, AI139309, AI150692, AA149803, AW778815, BG056965, AA621741, AI887136, AA480367, AI122849, AI264775, AI301094, AI858940, AW138433, AI475028, N51116, R43155, AI360750, N67604, AI805878, BF448017, BF436018, AI360714, AL036485, AW950411, AU145938, R56869, AI335713, AV709390, AL079879, H88637, R62368, AI358678, AI969128, AI682803, AI431806, AI927440, AI127867, BE045706, AI436746, AI457509, D25622, BE552098, AA969967, AI807004, AI873779, AI760974, AI498680, BE395341, AI092072, R41502, AI922485, BF195730, R26824, BE501550, BF115105, AI887907, BE966826, C21338, AI476678, R62367, AI338819, BF115838, AI701207, AA983931, AA745926, BE220071, BF340377, BF436189, AW150149, AA599581, AA328457, AA031945, AI095709, AI216130, BE379642, BF681640, AI871905, BE885672, AI695379, BG030823, BF814335, AW855497, AV682005, BG030364, BE881089, BG113188, AV727226, BE876033, BF037971, BF904189, BG180996, BF344705, BE885353, BG179633, BE905749, AI349614, AV682333, BF338723, BF924882, AL514359, BF032768, AI343112, BE826058, BF526020, AI349598, AW269097, BG032208, BG035511, AW149925, BF815196, AI433037, AV738730, BE885048, BF339043, BE887488, BG025770, AW302992, AI343059, AI565125, AI687291, AA974049, AI866510, BF826445, AW834325, BF699668, AI345251, BE783752, BG114104, AI313352, BF527014, AI349622, AI334452, BE910373, BG034550, BF816806, AW075207, AV682715, BE904178, BE172767, BF752353, BE072233, BE894455, BG036846, BE963286, BF036115, AV756150, AV682602, BG058039, BE877769, BG178809, AW858254, AV722478, AV738991, AW301300, BE908967, BF970853, AV755459, BF910810, BF850354, BG107576, BF673434,

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HVCAE76	555	101994 2	1 - 3030	15 - 3044	BF794486, AI694023, AV730238, AI971193, AV714826, BE766989, AI762047, AI467861, BF035186, AI799534, AI827688, AV699146, BF815957, AV718765, AW089505, AW613185, AL120076, AW029467, AI292243, BG166099, AI860559, AI339164, AW190024, AI288250, AA743179, AA707793, AA926679, AA425650, AW467621, AA972331, AI808567, AW900702, AA565392, AA493651, AV730688, AW992385, AI219963, AA928993, AI446145, N39381, AA281623, AI949746, AW513339, AI799438, AA910463, AV728440, AA620754, AV724992, AI524452, BE719286, AA022453, BF056400, AA904622, AW938493, AW450736, AW975795, AA810293, AA769161, BF826898, AI803753, AA347511, BF088130, D20085, H09463, AI434672, AV698937, Z43028, AI219929, Z45293, F06225, AA644371, AA120889, AA494347, BF798133, AL043246, N92632, Z30065, AV729526, R19541, BE709510, AW361999, AA814042, AA493785, AW132108, H09113, AA736827, H43746, AA621524, N56636, T32742, AI363767, AW337497, BF088128, AW089941, T16598, AW192227, BF738251, AA120876, Z21395, Z21394, R43709, AW872531, BF088138, Z40998, AI365560, BE719304, BE814588, T52397, AW298543, H03731, AA953682, R20253, AI693583, T25752, BG032019, BE048071, AI539771, AI682106, AV682772, BE047737, AI590227, AW302988, BE018334, BF726234, AL514129, BF726451, AL045266, BG113299, AI560099, BF725868, AV704928, AI440239, AI537677, AL045500, AL514899, AW827276, BG257535, AI923509, AL514935, AL040243, AI612913, BF812961, BF960601, AI500706, AI269862, BG036846, AI636445, BF970449, AI284484, AI249257, AI524671, BE876033, AI702406, BG120816, AI872711, AV753074, AL513991, AW104724, AI275175, AI538716, AI433157, AI572787, AV755459, AI564719, BF812438, AI918435, AW087445, AV734318, AI619502, AI433976, AL514357, AI274508, BF795712, BG180034, BE963035, BF812938, AI620284, BG164371, BF812933, AI610756, BF341801, BG260037, AV711509, AI802542, AW663332, AV758738, BG249582, BG252929, AI499463, BE047852, BF338723, AI934035, AI567612, AL515047, BE047738, AI500659, BF793324, AI500523, AW086113, BG163618, BE874133, AI491776,

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HOCMH14	556	102000	1 - 2325	15 - 2339	BE797207, BE540510, BE293489, BE796238, BE797879, BE250132, BF311879, BE304911, BE293878, BE264951, AW028078, BE676650, BE305180, BG104408, BG118139, BG178095, BF035383, BE618621, BF237831, BE305140, BE293582, BE266684, BG036827, BF237476.

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						X82434, A07588, AF132676, AR070212, AF061836, U53505, U83980, AF090900, AC069550, AF115410, S69510, AK027102, AX046716, AL122050, AK000432, AF218033, and AK027182.
HPDRZ03	557	102013 0	1 - 2717	15 - 2731		BF795061, AW976162, AI336187, BE787905, AI566053, AA621555, BE379004, AI888132, BF449002, AI572793, AW953596, AV731560, BE464189, BF700608, AI057629, AV690932, AV731217, W20089, AW949930, BF185794, BF574471, BF790461, AI033649, AW978656, BF590535, AI015769, AW974203, AW580919, AI129798, AI187161, BE566880, BF672832, BF701487, AW379270, BG176763, AW379230, AW819999, BE565065, AI016847, AA554284, AI470063, BF028077, AI436699, AW974207, AI433764, AU151875, AW607577, BE866508, AV730208, AA496518, BF801714, BE565163, AI804118, AW386794, AI185250, AW611543, AW576189, BE787936, BF081587, AI864050, AW606295, AA757266, AI292179, BF698279, AA937967, AV728215, AW662851, AW770253, AA903450, AA828540, AW819747, AW664434, BE972481, AV748931, BE566589, AA086404, BE565629, BF669858, N59859, AI090008, AI018582, AA311481, BF369464, AA639411, AA235868, AL044818, BE565965, BF028240, AA194974, AI277479, AI830724, AW819990, AA884776, BE088303, BF825153, AV706348, AA352565, AA112766, AA994736, AA307919, AA195042, AV727714, T92794, AW577193, BE091282, BE698130, AA747705, AA305360, AW078967, AA130846, AI383982, T92816, AW974202, BF032637, AA332267, AW768891, BE840891, N50876, AA385919, AA206069, AL531278, AA236069, D20276, AA573456, AA454851, N90429, AA206242, AA206251, AW820081, BE091322, BE179477, AA204820, AA804901, AA207272, D45772, A20553, X55316, X59710, L06145, M55045, X59713, and M60617.
HOCPO73	558	102018 0	1 - 3993	15 - 4007		AL517889, AL530663, AL530664, AL527010, AL519426, AL534226, AL517890, AL519425, AU118754, AW957151, AU125377, BE880294, AW467484, AI425003, AL532403, AI743711, BG261041, BF969175, AW269442, AW664040, BE467609, BE795175, AU129661, BG149333, AV722937, AI378839, BE503990, AA808061, BF511587, BE504725, BE550797, AV713026, BG111932, AI796765, BE779434, AW194726, AI141040, AU119219, AW675131, AW295030, AA907763, BE836425, AU149049, BF382219, AW090689, AA129297, AW970465, BG010166, AA808655, BF210690, AU145244, BE219006, AW090757, AU145617, AU144713, AU151742, AI040749, AA743502, AI376068, BF115269, BF432202, BF677542, BE673593, AI624081, AA449017, BF431936, AA425355, BE075299, AW275278, AA234143, AA400665, BE935814, BF594345, BG006317, BF211366, AW172960, AI082446, AA535366, AV687417, AA235178, AW103577, BE935750, AV686296, AA644064, AI393088, BE549680, AW104603, AA425560, BF433781, AI041616, BE672915, BF361973, AU118056, AA743516, AI767159, AW303946, W07337, AI536829, AA281366, AA400717, AW013799, AA583447, AA084316, AW169817, AA809281, R60645, AI246220, AV686665, AA129338, AV690633, AI374726, BF514173, AW078570, AW340767, AI620168, AA765027, AA456431, BE774508, AA196627, R60591, AA991773, T09201, AL038082, BE841488, AV688425,

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HNKDT10	559	102083 2	1 - 779	15 - 793		<p>AL040968, BE614664, BF475583, BF570251, BG236016, BE645059, BE728283, AA876119, AL040878, AW853904, AI620201, AW272525, AW853891, AW604445, AI810630, AI624158, BE000415, AA662674, BE272442, AW295598, AV682528, AI139291, BE927219, AW361341, AA428869, AA643689, AA101504, AA506178, AW368592, AI628041, AI223312, AW272772, AW974131, AA126031, BE774624, BE543621, AA126626, AI635219, AI831145, AA223723, BG258104, AA166669, AI933334, AW368596, BF349670, BE272468, BE696054, AA609710, AA182573, AA125839, AA627552, AI520735, T70552, AW245101, AA588589, AA969727, AW361336, AI589990, AI654578, AW301938, H98122, AW613874, AI128760, H06511, BE774570, AA071351, AA569083, AA909871, AW173734, AA653217, AA436546, N25030, AW978146, BE774538, AW074868, AW608903, AW518612, AW390796, AI308036, R56868, H84055, H29320, AW292509, AW338571, AA281089, AV696543, AA813942, AI682762, AW608894, T90829, BE540699, AW028456, BF829483, AI474847, AA706136, BE407767, BE147900, AI612136, AW853793, AI612151, AA969587, BE828101, R10267, AA366775, AA776935, AW753301, BF816887, AI741693, AI525912, AA715437, AI802376, AI571962, AW876607, BE002394, BF832529, AI610191, AI242268, AA436573, AI918613, BE465631, BF095123, BE537892, C00578, BE242302, AW386767, AW999658, H53724, R72151, BE748607, AI362560, AA730228, AW469483, AI886770, AW795176, BE842481, BF822760, BE008855, BE774516, AW600274, BE093399, AI963787, AW879423, BE768742, AW579391, AW579321, AW176549, AW579382, AW579341, and AF191018.</p>
HWHGO25	560	102084 1	1 - 651	15 - 665		<p>AK025015, AL031280, AL049845, AF139813, AL135783, AL117337, AP000009, AL391384, AC004066, AC007383, AC007262, AP001429, AP000150, AC003025, AP001713, AC016601, AC020552, AC005578, D83253, AC024247, AC010358, AF205588, AC004228, AC034246, AL136170, AC006571, AL121977, AL157826, AL136314, AL031602, AC002045, AC008122, Z85996, AP000035, AP000031, AL136101, AC003013, AC005914, AC005330, AP000100, AL136981, AC003971, AL109952, AJ000673, AC005538, AL109825, AC005041, AC004980, AL162831, AC016816, AC006452, AL162390, AL157372, AB011166, AC020898, AL022313, AC011464, AL021937, AL161757, AL034420, AC006483, AC003982, AC083871, Z97988,</p>

					<p>AP001727, AC006451, Z97180, AC005369, AL031597, AC022402, AL022326, U95740, AL139014, AL162458, AL133246, D87675, Z82180, AL121751, AC003992, AF312915, AB026898, AC000062, AC006327, Z98946, AL022237, AC008556, AC018663, AF131216, AC007225, AC005015, AL133335, AL356321, AC000353, AC000052, AL035495, AC004019, AC003962, AC009946, AC003070, AC007666, AC002395, AC010311, AC011495, AL031846, AP000359, AF196779, AL356010, AC003110, AK025772, AC005379, AC004166, AC006984, AP001711, AP001695, AC005005, AC007537, AC004686, AC016751, AL359708, U82671, AC021068, AJ246003, AF031078, AC005052, AC005080, AC008569, AL163203, AC004923, AC005725, AL031680, AC008267, AC006079, AC016951, AF030876, AC006262, AL049747, AC004841, AC008760, AP001607, AC018697, AL096775, Z81315, AC006254, AC006111, AL024498, AC004460, AC002470, AC005340, AL137783, AC025765, AK001094, AL117377, AL050312, AC008783, AC004984, AC007919, AL049820, AL357508, AL034418, AL157791, AC009087, AC009336, AL050318, AJ400877, AL121658, AC005696, AC003006, AC073148, AL157838, AC005703, AL158040, AC008079, AC011490, AC013429, AL137782, AP001677, AC008060, AC004014, AC019187, AC009600, AC008482, AC005409, AF109907, AL133507, AL031311, AL121586, AL122001, AC003101, AC000097, AC005011, AC007663, AL080275, AC007739, AC005781, AJ295844, AC004953, AC006547, AL031652, AF001552, AL359382, AL355098, AL031663, AC008490, AL133517, AL132987, AP001724, AL355094, AC007619, AC005250, AC007227, Z95115, M63796, U89335, AL137191, AL121759, AC005098, AC015540, AL079335, AL080317, AL031670, AC010473, AC009248, W02765, W24794, AA469028, AA492383, AA503887, AA603234, AA917585, AA923690, AA193445, AA284249, AA412671, AA405278, AA705656, AI096706, AI261296, AI302784, AI458808, AI459231, AI247523, AI683171, AI693406, AI762161, AI762515, AI697643, AW272354, and AW296232.</p>
HWMNE31	561	102085 2	1 - 1048	15 - 1062	<p>AL523455, BF685619, BE396633, AL522875, BE727102, BE385361, BF971548, BE901324, BE251996, BF683401, BE727862, AW957925, BF972411, BE387273, BF063156, AV650861, BE348280, AI479252, AI471620, AW242495, AI138610, BF038793, AA307040, BF476579, AA631250, BG010494, BE327939, AW300589, BF348460, AI650780, AA126751, AW237339, BG008457, AW361221, BF949318, AA868535, BE704322, AW104774, AW853553, AW139397, BE252382, AI766554, BF803012, BF973574, BF805834, W22123, BE244245, BF986189, AW804846, BF996230, BE876641, AA131115, BE176635, BF089058, BG015073, BF808543, BF876184, BF743463, BE882668, BF876140, BE779075, BG008749, BG004714, AA159254, AL523454, AA159246, AI889092, AA054682, AA159444, BG029940, BE003218, BG109109, and AF083384.</p>
HUSYJ75	562	102087 8	1 - 829	15 - 843	<p>BE616886, BE737370, BE313836, BE616411, BF314407, BF309777, BF683527, BG034665, BE259399, BF685748, BE799408, BF683989, BE313841, BF684679, BG256204, BF305186, BF684326, BF339386, BG120598, BF683765, BF304139, BG031413, BF205559, BF203380,</p>

					BE269689, BE791703, BE299881, BE615099, BF686502, BE728257, BE621350, BE274159, BE272573, BE796339, BE271642, BE877780, BF972624, BE267433, BE263358, BE407188, BE260009, BF346232, BE264439, BE407642, BE207313, BF307831, BF032566, BE275275, BE390726, BE514965, BE737151, A1815489, BE264559, BE387322, BE206730, BE788557, A161325, BE965238, BE736560, BE563817, BE907306, BE886812, BE740298, BE778841, BG034028, BE019288, AA314913, BF727015, BE410164, BE732813, BE732266, BF308734, BE736392, AA481180, A17238807, BE905096, BF222816, A1391538, BE530991, BE727894, BE300197, AA402703, AA291830, BE531146, AA430585, BG031733, BE409099, AA478002, BE272874, AA813180, F33626, W92063, AA477636, R48213, AA291416, H44698, D81578, AA410810, A17410990, BE737331, F31078, BF808120, AA404634, BE735623, BE563421, BF765469, BE746331, BF763087, BE540929, BF303947, BF765075, BE298233, BF765470, BF765471, BF764997, BE737526, BF763072, BF765732, R48212, BF766233, BF765132, BF765866, A1663018, A1199641, BF765141, BF765854, BF763071, BF765137, BF763064, R76366, BF765085, BF973876, BF765390, AA259156, H45856, AA527076, AA634419, W46909, A1740321, BE787834, BE881978, R53502, AA989515, AA992856, BG256112, AA082859, AA405613, N33016, AA431714, AA402251, AA428739, BE019171, H27361, AA433930, AA781076, BF853885, A1356153, AA421153, BE279846, AA527703, AA437290, AA548838, AA868508, AA045788, AA045789, R71978, H65104, AA557196, AA937294, AA394038, AA878768, AA397944, A17410991, H24982, A1017127, AA588044, AA810849, AA890133, N21435, AA235635, A1292632, AA911570, AA911411, A17410811, AA442369, A17960600, BF379278, W04477, BF765089, AA858106, BG249536, BF764187, N37052, A1372897, H26646, A1292262, AA478003, R50043, AA938578, AA405152, BF763063, W46762, D80356, BF765136, A1693701, A1199749, H27989, R50271, BF765135, BF763068, BF765855, AA316178, BF764189, N99395, AA971668, AA775564, AA856667, H61240, A1816429, AA640959, A1983807, BE205806, A1580256, A1243715, R54954, W94910, BE207966, A1239524, A1870009, A1858776, AA405176, AA339108, AA912974, H42340, BF766080, BE882433, A17025910, AA586393, AA259117, A1199548, A1122676, A1161006, BF766220, A1222240, A1269828, A1589829, BG107541, AA918617, A1700353, AK024699, A1121829, Z98941, A1196167, and AA405175.
HSDFS07	563	102090 4	1 - 1051	15 - 1065	AV660563, W28683, H06169, U46296, BF791236, A1816502, H16434, W65439, A17901775, N44987, A1035427, and AB007903.
HCOPC09	564	102120 8	1 - 668	15 - 682	BE877222, BE563229, BE906536, A17006817, A1660818, A1309831, AA075143, AA683587, BE273512, A17004931, N32191, N32189, A17189983, AA195167, A1755716, A1457910, A1128868, A17802561, AA505434, A17802439, A17802607, A17305090, A1190254, AA642293, A1933386, A1708906, A17802602, A17802604, AA569431, AA074407, A1369322, A17802589, A17656952, H26602, A17656964, BE003740, A17802600, A1017411, AA480199, F29822, BF111575, A1623115, A1886671, A1984344, AA194955, AA074308, T53523, C02021,

HVVBT22	565	102132 3	1 - 1687	15 - 1701	<p>             A1749291, AU134911, BE813290, N51842, AW748175, AK001829, and AJ245905.              AU117422, AL514582, AL532153, AL535182, AU119503, AL515348, AL518412, AU142403,              AU136064, AU117566, AU125032, AU142609, AU120990, AU125166, AU120250,              AU122228, AU120208, AU131839, AU125690, AU120809, AU120431, AU120496,              AU121653, AU130969, AU120289, AU141529, AU117312, AU122759, BE731920,              AU125858, AU136185, AU143171, AU124914, AU123314, BE748881, AU124640, AL537080,              AU117082, BE747420, AU138101, AU143396, BE886071, AU134283, AU138420, AU130772,              AU133610, AU134639, AU122001, AU137905, AU124552, AU134165, AU126330,              AU120773, AU128599, BE019382, AU123242, BG033773, AU123244, AU128844,              AU128812, AU122063, AU140131, BE898670, BE781312, AU126452, AI357396, AW161269,              AV713949, AU134973, BE901129, BE257934, BE902602, AU128388, AW410254, AA173565,              AU129219, AA885276, BE271870, BF195178, AU127412, BE271305, BF308186, BE543295,              BF796416, BE883484, AU134938, BE874501, AA810505, BE280671, BE535185, BE791948,              AA460919, AW515392, BG231654, AV760243, BE563561, BE871731, BE514155, AA306727,              AW160602, AW614922, AW328678, A1751440, BE267332, AL038056, BE262753,              AW264678, BF035231, AA745986, BE874665, AU126313, BE795186, BG105962, BE779924,              AU143282, BF919797, BF920391, BF919798, BF919736, BF919863, BF887577, AW410104,              BF920023, AV760330, BF919859, BE277024, BF920401, BF919741, BF920393, BE728896,              BF892628, BG250877, AA643578, BF919800, BF919739, BF919855, AA136603, AV760748,              BF920402, BE895069, BE792450, AA461222, BE781751, AA905219, BF306371, AV760722,              AA173850, BF305355, AW073698, AA602419, BE049587, BF305270, AA863330, BE782876,              BE242149, AA361044, BF919846, BF304408, BE787371, AA306612, BE313786, BE778186,              AW976276, BE748292, BG035992, AV737626, AA826291, BF308278, BF970617,              AW161764, BF025985, BE883883, AA173728, AW580945, BF965263, BG119870,              AU125383, BE392807, A1751588, AA113339, AA214477, BG024481, A1160578, BE778007,              BE781925, AV757089, AA374616, BE264518, BF670760, BE269160, AW797530, BF688054,              BF920018, R42651, T41211, AA359827, BG033868, BE271463, BF349723, BF919791,              BE085587, BF670517, BG110561, BE246601, R77057, T51111, BE222796, BF210615,              D19665, AA749391, A1222227, AA746250, BE085637, W22802, BF681379, BF688133,              A1659594, AA903199, BE710280, BE253002, AA084239, BF306478, BF892623, BG167309,              BF032518, BE707092, BF576794, BF768008, A1166002, AA092065, AA333206, BE903624,              BF768014, BE277196, BE085565, BE867589, BF475712, AW672890, BE890700, AA361776,              T51019, BE071854, BE893757, BE934839, BE829205, BF211131, BF688803, AV733173,              AW972818, L76159, Z23064, AR083785, AC004051, A1121573, AL034397, AJ237847,              AJ237846, AF031568, U62105, AF146191, Z57492, AF074708, AF074707, A41579,              AL133665, AL080139, AL389935, AJ012755, AL357195, AF124728, A77033, A77035,              AK026541, A23327, AL389982, AF230496, AL133623, AR050959, X00474, AF116602,           </p>
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HAMFW66	566	102132 7	1 - 2419	15 - 2433		AL526421, BF348345, AW960471, BF967738, BG029196, BE888136, AA521213, BG026624, AW269820, AL526380, AA935806, AI811094, BE544188, AW297814, AA530864, AW183088, N93208, AA190485, AI590925, AI580177, AA530872, BG166234, AI192467, AW675014, BG001657, AI770041, AI392640, N78499, AW613010, BF752886, AW082182, AA285173, AI031786, AI031914, AA828941, AA768225, AI921261, AA705598, N73658, AA189018, AA088228, AI081497, AA748426, AV722453, AV722710, AA812077, AV722812, AA825401, AV724527, AA729099, AI476037, AI797637, BF516236, AA181631, AW577499, BG261386, AA115700, H66289, AI190522, BE246170, R80280, BE247161, AA088373, AA826000, D44777, AA988049, AW449908, AA807271, AA829143, AI469173, AI474641, AA552196, AA961047, AA076472, AW183263, W38991, AW969186, AA328179, BE929231, Z30295, AI077532, AA076361, R66760, H57093, AA115701, R77473, AI541132, R31313, AA284026, BE813379, R76603, BE929288, R33300, AA190923, R31573, BF987396, AI824597, AA302351, H67718, AA639693, AW748613, R33149, R66399, AW613313, H57094, AA814297, R76604, AA329168, AI903265, AA091905, BE004643, AI472450, AA190924, F13607, BE926658, BF989794, AW577495, AA419387, BG105915, BE003461, AW440944, AF271070, AC016254, AF075704, and S77359.
HPMBW86	567	102166 1	1 - 884	15 - 898		AA282852, BE909837, AA324267, AI272171, AA826428, BE617994, AV725733, BF950693, AF129756, AL132713, AP000504, and AJ245433.
HOFMK02	568	102166 6	1 - 373	15 - 387		BG168646, BG168645, BG117025, BG253641, BG025417, BG258222, BG167818, BG164284, BE612896, BG252223, BE621811, BF345060, BE910738, BF798053, BE621893, BG123011, BF984992, BG117030, BF984267, BG031014, BG117026, BE621810, BG168644, BE614378, BG253645, AA362688, AA362690, AA362689, T29199, BE613101, AL044652, BF793870, AR080280, I66487, A94048, A94061, AR035224, A49045, AR071324, I09252, I09251, AX002278, I09270, I09268, I09269, I07209, I07249, AX042374, AX033488, AX033489, AX033490, AR068508, AR068510, AR067734, AR068509, A63954, AX042377, AR091571, AX033474, AX035427, AR089207, AR089206, A49701, AX035430, AX033486, AR089208, AX033487, AR089205, A29109, A32111, I66495, AR068550, A23373, AR068551, AX042373, I66494, AR085090, E01324, I08638, A94046, A94054, I58322, I58323, I66498, I66497, I66496, I66486, A27169, A27170, A39929, A83151, AR067731, AR067732, AR038307, AR038321, AR070554, I09267, AX030435, AR051528, AR051547, AX030436, AR051537, AR051524, AX042376, AX042375, and A42964.
HOUHK71	569	102168 2	1 - 415	15 - 429		BG232144, AI078579, AI634879, AI206835, N32586, AI184760, AA992169, AI351746, N32600, AI830545, N62169, AI693942, A602061, AW069038, AW768856, AA326452, AA811954, BF804385, AA862029, AW962235, F35674, AW664548, AI671077, AA297789,

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HCOOW23	570	102175 9	1 - 909	15 - 923	BE253921, AL536770, AL533198, AL534756, AV650088, AL529457, BE293315, AJ403132, AL534757, BG248619, AV759232, AL532630, BF515555, BF982726, BE392537, AW752338, BF337539, AL522277, BE252854, BF337870, BE888289, BE796085, AL522276, BE798216, AL536769, BE798556, AW820575, AL515572, AL532584, AL525226, BF342351, AI937797, AL529456, BE269295, AA853153, AA371767, BE296482, BF342746, BE794857, BF304289, AA322256, AL038180, BF204689, BE867391, BE737482, AA486356, AA359937, AL525271, BE925554, BE711533, BE548184, AA348677, AA344315, BF846052, AI878966, AX014299, AF158978, AF196969, AF220146, L08237, and AK000570.
HACMT02	571	102179 4	1 - 321	15 - 335	
HISDS67	572	102201 8	1 - 2308	15 - 2322	AL534825, BF966655, AL534826, BE297391, BF220011, BE245264, AW156875, BE791830, AL513756, AI288798, AI983649, AI983228, AU148467, BF194886, AI949855, AV751641, BE858463, BF530393, AU158916, BE670426, AU151009, AL537788, AI198922, AU141329, AI084858, AU130221, AA975273, AA826390, AW369907, BE467257, AI419391, BE467571, AA161209, AI369446, AU152769, AW474249, AI702643, AI085602, BG142258, AW471257, AW090631, W26589, AI085983, AI269061, AW079989, AW338324, AI934186, AI798753, AA772100, AW956493, AV654106, AI497580, BF90701, AV746621, BE696848, AU130902, BG056286, AU155631, AU141632, AI368950, AA702289, AV728848, AU133753, AI735233, BE832305, AU159447, AI042204, H45328, AU124643, BE327413, AI378413, BF367422, AI363351, BF940478, AW467982, AW150346, AI654974, BE612670, AA086226, R62990, AI090507, AU134777, AA112992, D61140, AI421781, AW052148, W32560, H15253, AI076859, AI436265, R63046, AA927548, AA757678, H13533, AI651723, BE672226, AW197530, AI367015, H12421, F34298, H45260, AI935399, R68712, AI671255, C15812, R43616, BF448890, BF477771, H12422, AI096595, W32679, A W411298, AW966063,



HOVAA59	573	102203 7	1 - 2880	15 - 2894	<p>AW128862, AW001843, AA482578, BE328367, AA377846, AI077629, AI690355, AA654380, R68660, AA299000, BF352133, BF310574, H13534, H41302, AU128780, BF352130, AW268127, AA365873, AA587492, R39217, BG105786, R20277, BE384469, AW957423, BF941068, D31426, BE729547, BE743568, BE410793, H15252, BE903090, AW408329, AI564769, BF026087, AW246135, BF335432, BF685675, W37662, AL157426, AK022957, AL049448, AK000633, AK026153, AF055078, AF161886, AC008969, AC010642, AF055077, AB029149, AB029150, and AA159113.</p> <p>BF663546, BE515265, BE271255, BF686472, BE271158, BE799923, BG250167, BG114802, BE560209, BE896965, BF983729, BE907113, BG113833, BE867974, BE312104, BF436337, BE267744, BE730335, BE267870, BG259130, BE780948, BF529227, AI678038, BE251580, AI302252, BE301829, AW006365, AW239255, BE889219, BE273260, AW293884, BE218473, AI912806, AW006355, BF058239, AA400151, AI346600, BF732881, BE560177, BE384861, AI703178, BF447926, AI684363, AI814411, AI243451, AA400177, AI458007, BF222427, BE513941, W44360, AA101019, AI479636, BF478032, AW078759, AI160522, BE797999, AA101020, AW296926, AA194366, AI288978, AI299323, AI378783, AI276087, AA399412, AW406211, AW614033, AW028776, AW402617, AW138677, AA308772, AA424970, BE219523, AW004676, AI014657, BF347470, N28719, AW247480, AI217469, AA194451, AW013943, AA582260, AI494169, AI287639, AA078843, AA459771, AA935341, AA962823, BF718676, AI568731, AW575260, BE241846, AW168461, AI609321, AW168460, AW501176, AA102492, N23054, AI270766, AW501163, H03116, AA052893, BE241450, BF061050, AI081881, AW088007, AI828294, AI473797, N79446, AA053066, AA155614, BE839053, AI910774, AA593294, W45713, AI859126, AW501340, AW075530, H25422, BE560824, R68175, H23671, Z25175, BE241715, BG059631, AI922153, BG056804, BE887176, AI333925, AI285233, AI222309, BE537653, AI358978, H12425, AA078842, AI018011, BF941218, AA296841, H25463, AI025963, AA292172, AA516434, H18375, AI909804, AA913370, BF740947, AI973056, AA644057, AI351425, AI540605, AI824426, T84848, AA972466, AW732545, AA495972, H52832, AI202261, AW001521, AW006790, R50745, H23627, AA985274, BF877647, W07816, AW380738, H52831, BF903465, R50289, AA515082, AA830254, BG056687, AI744667, AI808482, AA807117, AW403735, H44855, AA406283, BE241528, AW131676, W23579, AI383034, W35247, AI126158, AI868512, AI671272, BF115474, AW593817, BF841813, AI223169, AI473155, BF588530, Z28826, AW238907, BE560844, AA523550, AA580852, AI653221, AI917471, AI669976, AA033652, AA807814, BG013843, BF876270, H27900, AW166470, AA631984, BG010588, AI745340, AW751433, BE767176, H40656, BE767205, BF796402, AL039390, BF795712, BG252929, BG113493, BG029667, BF338002, BG167830, AI890907, BF971016, BG119543, BG113712, BF970425, BG163646, BF971261, AL046681, BF792736, BG180295, BF968504, BG108452, BG114865, BG111100, AI906578, BG179586, BG111590, BF968622, BG251851, BG165260,</p>
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HOCPL72	574	102205 9	1 - 2428	15 - 2442	AU132311, AU133843, AU123628, AU126989, BE270303, BE965853, BF104740, BE782152, AW967966, AV710700, BF979638, A1760361, BE866269, BF572988, BF977379, AA835886, AA282291, AW152499, AA232116, BE694283, AA282292, BE866003, H24091, BE694299, BE694274, AL036481, AA587771, BF590906, BE694256, BE694301, AL036074, A1738975, A1337371, AW138609, W01426, AW370876, A1085600, AA258395, BF691661, BE828089, A1654432, BF980280, AW370872, BF825914, BE711349, BE694242, AA808145, A1249475, Z28899, A1095789, A1888383, A1383951, BE694255, A1041993, AL036075, A W631216,

HCOMM05	575	102208 2	1 - 1649	15 - 1663	<p>AI684838, AW664661, AI681546, AV708068, BE697720, BE620258, AW369843, AA788975, AI338025, AI128159, BE620797, H67557, W02157, AA837309, BF575014, BF672155, BF825241, AI263533, AI026121, BE711345, BG099512, BE694284, AA329966, AW016318, AA280569, AC007250, and AK001197.</p> <p>BG250919, BG168448, BG119581, BE873125, BE873068, BG026155, AI681802, AA534542, AL044632, AV698020, AI912061, AI912050, AI298280, AI271683, AA587766, AI143726, AA565889, AI052230, AI983603, BF939524, AI369272, AA079779, AI148467, AI028441, AW747800, N93876, AI950520, BF511609, AW024410, AI933105, AW138648, AW579260, AI244430, AW605368, AA583571, AA436795, BF531044, AA158795, AA079751, AA595313, AA947417, R27340, AI373637, AW182724, AI244362, AI869920, AW381284, AI348932, AI991003, AI250467, AI335365, AI611516, AI252717, AW086414, AI252210, AI310178, AI252203, AI345138, AI308005, AI310659, AI250541, AI311180, AI250964, AW301779, AI348928, AW086115, BF840501, AI311179, AI250009, AI345868, AI305732, AI311504, AW303046, AI269522, AI254155, AI335130, AW301495, AI251162, AI862506, AI371584, AI311043, AI251045, AI335320, AI305978, AI590436, AI284537, AI310038, AW301422, AA158794, AI224292, AI252538, AI053635, AI862262, D31472, AW268255, AI685886, AI540612, BE043498, AW371409, W40369, BF718394, AW071370, AI886550, AW371414, BF765964, BF805100, AI955911, AI024888, AA143739, BE645943, AI254135, AW748697, AI246935, AW177721, T35070, BE743993, BF765681, BF030689, AW748701, C00345, BG223100, AW371416, AA902858, AW827228, AW369434, AA581215, AW663332, BF968085, AW117919, BF814541, BE966388, BE898902, AI932915, BF726237, BF753020, BF342070, AI554245, AW132056, BF342475, AI800433, N80094, AI358213, BF726183, AW088899, AI539153, BE048071, BF726504, BG168696, AI919107, BE964497, AI680457, BE047852, AI802833, AW020095, AA946741, AI698401, AL110306, AW118398, AI251830, AL041772, AI805769, AI929108, AI468872, AI680280, BE048157, BG116586, AW999049, AI251205, AI888621, BF343174, BE965192, BF970186, AL046356, AW195957, AW002342, AI889953, AI659795, AV714209, AI520809, AI569309, AW151785, AI498579, AI478123, AL119791, AI922901, AW198075, AW088134, AI432736, AI610645, BG058039, AI587606, AI699011, AI476109, BF341801, AI697324, AI335214, AV729451, AW081255, AI868831, AW073994, AI888944, BF344652, AW189415, AV757797, AI280670, AI590686, AI783861, AL119863, AI866608, AI886124, AI345746, AI680498, AI628217, AI802240, BE907440, BE543089, AL040241, BF895953, AI687065, AW827289, BF343172, AI469738, BE964700, BG029053, BG260037, AI805688, AI249877, BF970446, BE907624, AV728670, AI345677, BF982085, AI952920, BF814357, BE620444, AV756770, AI431909, AI633062, AW406745, AW505354, AI343059, AI376180, AW168031, BG105895, AI682743, AK025588, AK025824, AF119909, AL137526, I48978, AK000647, AL050138, AL080127, AL359583, AF217966, AX019230, AF078844, AF116688, A65341, AK025084, AK024538, AF130100, AL122098,</p>
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HLYDC86	576	102216 2	1 - 2970	15 - 2984	<p>AI207830, BF980256, BG255565, BF527753, AI207808, BG117478, BE882223, BF032245, BG107961, BG028168, AA418445, W55859, AI927385, AI885195, BF207485, AW959654, AW974422, AW026019, AI634742, BE672190, W55860, BE467355, BF216890, AW368105, AW167206, AW938120, AW780348, AI890090, AA609091, BF061507, AW008797, AW471447, BE328742, BF438483, AA486828, BE539697, AI222822, AI922048, AA854525, AI139534, AW268992, AI082583, AI921872, AI689669, AI869021, AI198325, AA890469, BE546325, AA825182, AW166302, N53464, AA568725, AI273743, AA872908, AA565397, AW183155, AA187931, AA137123, AA188547, BE673258, AI420396, AA130271, AI424421,</p>

HTLEP21	577	102216 7	1 - 498	15 - 512	AA234216, AA837444, AV698758, AW081790, BF215282, AW001985, AI290692, N64050, AA487149, AA632867, AA278971, AA627287, AI421568, N30841, BE843068, AI015710, BE672175, AI080408, AV656531, H22069, AI860058, AA513444, AA772734, AA321226, AW512054, AA252409, AL527193, AA320611, AW512226, AW818993, Z38627, AA460468, BF901042, H58266, AA600285, AI536727, AA336516, AA856652, AA376938, AA332020, AA319582, H53033, AI872704, AW819114, H27447, R64230, BF375565, AA336300, AA948563, N91625, R36577, AW754354, F03234, AW888699, H58658, AI873589, N72467, BF804502, AA360789, AA805558, BF870334, H53034, AA348195, AA312725, BF855531, BF901053, BG000249, N41368, BF906545, N68734, F01718, AA096049, BE836999, AA039632, N79304, AI095276, AL527194, BF088469, C21390, N48520, AA570529, AI923530, AA236028, AI333340, AA252364, BF350925, AW998964, N39406, AW962027, N88953, AA324480, AI860277, AW178942, Z44006, H10498, BG110839, AI308234, R52572, AV752119, BF969512, BF979615, N88646, Z21403, AA091227, R60109, AA911274, F05669, AF171939, AF171941, AX013196, AC004846, AF109907, AF171938, AF171940, A84104, AF108092, AR060049, U70674, AF170709, AF169191, AF169192, and AK023670.
HVCAS77	578	102231 3	1 - 1263	15 - 1277	AA737807, BE396727, BF337404, BE514003, BE901238, BE902214, BE778641, BE560533, BF212227, AI950417, BF310368, AW296355, AI694694, BG113731, BE856560, AI341643, AW083848, AA448944, AW076055, AW772825, BF224446, AI341859, AA316241, AI950236, AW452665, AI796355, AI367080, AA582612, AW891296, AI338467, AW601444, T62771, AF081280, AF079325, AC010789, and AF267714.
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						BF811653, BF811638, AA247223, AW604498, BF382264, AA059437, AL119511, AL119443, U46351, AL134902, AW392670, AW363220, AW384394, AW861889, AW858455, BE705905, AW604723, AL042450, AL119497, AW858526, U46347, AW858525, AL134529, BE705904, BF868687, AL119335, AL134533, AL134528, AL119396, AW604726, AL134527, Z97029, AC020934, AJ251859, AX030435, AX046357, AR054110, AR069079, AJ279014, and AR043113.
HOGCA79	579	102262 7	1 - 791	15 - 805		BG168184, AL520454, W26661, AW852195, BG025290, AV724937, BF507602, BF088108, W03095, AL137260, AB023164, AK024400, and AK025279.
HSKJP93	580	102266 3	1 - 902	15 - 916		AL529011, BG255347, BF690072, AL526898, BE619715, AL526862, AA225276, BE313356, AI038975, AI921710, AW008086, AI090281, AW069180, AI363208, BF589487, AI089610, AI347908, AW149792, BF438638, BF197170, AW169069, AI360030, BE962354, N20554, AA622048, BE645187, AI281033, AI078405, AI206446, AA234630, AI619944, BF677125, AA716397, W46238, AI363209, H57560, BF438307, AI076931, AI245901, AA232141, N50121, AA781638, AI339741, AI949284, AA587473, BF879123, AA417926, BE049614, AA039652, AA725052, AI088073, BE617041, AA873510, AI830299, AI674249, AI075714, BE301100, AI184096, BF060686, BF060708, AI143825, AI682736, AI371374, AI753946, AW517317, AA404562, Z41593, AW197868, AA039653, AI201064, AA226403, AA911964, AA936800, AA587227, AA180295, AI375376, AI472925, AI375208, AA633085, AI917575, AI796045, W46237, AA256621, AI276514, T35186, BE440014, AI022101, AA490686, AW753961, BE720795, AA490464, AW380609, AA907215, T23530, H69686, AW207363, BF088878, AI272710, BE814054, AA677846, AI887107, AI382910, AI340115, AW591579, T69837, AW883612, AI868215, AW800073, AA382930, BE931847, AA508694, BE763875, AW025790, T29949, BF917720, BE715584, AA709274, BE172905, AW578884, AI000438, T70170, Z39224, AI242350, AI242352, AA065234, BF037167, T32777, AA232682, AI362572, BF593504, AA559094, BE715507, AW591554, BF736794, AA747146, AA442426, AI498518, AA715001, AA064932, AW795338, AW795199, BE814103, AI869467, BE832738, BE832684, AW967343, AW879422, BF815725, and AL050022.
HAZAA64	581	102271 9	1 - 1012	15 - 1026		BG250151, BG030305, BE621879, BE877128, BG169415, BF315280, BG115047, BE313140, BG178675, BG250651, BE780849, BE621219, BE888948, BF984358, BE883171, AW955813, BG027461, BF978356, BG028391, BF978621, BF968789, BE313134, AV706213, BE261031, BG178287, BE407132, BF573272, BE265622, BE047800, BF111443, AI039662, AI432190, AI750580, AA181190, AI264676, BF700663, AI554856, AI373711, BF965142, AI151373, AA227851, AW248400, AI571831, AA904468, AW264035, AW263997, AA886963, AI217114, AI636464, AA902875, AW263443, AW246715, AI348664, AI660883, BE932685, AW057916, AI817324, AA464607, AI336179, AI080510, AW194208, AA035005, W73343, AA100458, AA989396, AA774506, AA100457, AA765035, BE932688, AA805569, AI400059, AA599048, AA749257, R60617, AA157856, AA570219, AI400073, AA826173, W73512,

HSEBD72	582	102290 4	1 - 613	15 - 627	AA112021, AI695582, AA573558, BF772814, AA157921, AA227605, AI750579, AA353565, AA188269, W95256, AA987195, F20720, AA471252, AA035106, AA035006, BE296789, BF438531, AA889565, AA437128, AA035504, AA837214, AA884570, AA912419, AA235019, AI918748, W87516, T62997, A404111, R17503, AA332419, AA337856, AA355412, AI420814, BF906638, BG167543, AA740598, T63140, AA357479, AI351271, AW816694, AA496183, W95158, BE965706, AA031607, C00461, AV688389, AV689546, AA215875, AA585473, AA031363, BF685657, AW299923, AW139861, BG251572, BF434829, BF684686, AI381769, AI279339, BE254918, AV728366, AA234771, R60561, AK026165, AK027059, AL109953, and AL110094.  BG259688, BG256381, BG106089, BF540736, BF685406, BG258836, BF317099, BE885124, BF685000, BG119494, BG026412, BG169451, AA130162, BF338064, BF035082, BF794548, AW163397, BE887335, AW247610, AV762460, BE769830, BE769829, BF307824, BG256286, BF346899, BF035806, BE891041, BF668220, BE735421, BF346627, AV764510, BF686475, BE905176, BF965427, BE563345, AW404764, BG105558, BE292726, BE732009, BF674377, BE733090, BF978450, BF309938, BG260314, BF218394, BF699000, BE784528, BF879216, BG253332, BE907669, BG028162, W65380, AW939133, BG260576, AW406459, BG032966, BF879284, AA037254, BF669461, BG249709, BF344262, AV688291, BG025832, BG114919, BE790011, BE547194, AW605534, BF689211, BE275820, BE895300, BF794947, BE274641, AV761956, AV760279, BE617459, BF237719, BF769691, AA244342, AW802123, BE905962, BE795747, AA736559, AV660803, H19605, BF768800, AV761301, AI718292, AI801068, AV716780, BF829067, AI033692, W37563, AI805149, BF343157, BF374369, AW157339, N55921, AA308978, AW880508, BE747475, H49329, BF768932, BF738806, BE832841, AW161592, BF185152, AW796437, BE568100, AV694334, BF768790, AW057902, BE617906, BF360560, R62329, BE539858, AW665269, AV711201, R69210, BG254986, R66651, AW802172, AW881164, W38866, AV655875, AW802153, H87324, AW340407, R71144, AV688290, BF879276, BF214803, BF929293, R81889, BG120942, BE560575, AW802168, R53482, BF209485, H15764, AW802110, BF681137, AA375768, AW802147, BE077283, BF771934, H50061, BG171644, BG058508, H42936, BE077392, R48677, BE082886, AW407445, AA347144, AW802114, AW340164, R82676, D30956, T83271, D31446, AA405848, BF246844, AW583591, BE077328, AI377826, AA063466, AA371719, BF771933, AW794316, BE298232, BF376838, AA506331, AA062973, BF376632, AA374912, AA877781, AI245944, AI870352, AW361732, AA309983, AA507296, AA405806, BF770066, AW958497, BE908127, AI376668, AW080994, T86590, BF349383, AA654022, AA132472, BE694496, AI753821, AA843958, AW804272, AA502629, AW262017, AI871454, BE170840, N22675, AW902974, AI200846, AA968888, N92574, AI368783, AI023505, AW878956, AA508010, H96667, AI094436, AI222362, AW800153, AI818859, AA035095, AA844075, AW973531, BF806782, AW845333, BF807373, BF868465, AA401366, BF806177, BF806786,
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HCRQL51	584	102299 7	1 - 2305	15 - 2319	<p>AL035687, S77728, S77733, AL031779, R33002, R35868, R38141, R74436, H43352, R84456, H72982, H89910, N42305, N43789, N46405, W24772, AA032297, AA054617, AA057645, AA228055, AA236690, AA258520, N87136, AA096136, AA285111, Z24957, Z42327, F05590, and A1264124.</p> <p>AU119322, AU118070, BF793583, AU137424, BE617595, BE315138, BE745899, BF968625, AL536796, BF035337, BG252446, BF037602, BF034003, AW962462, BF032444, BE906949, A1735021, BE788139, BG180237, BF968987, AA742531, BE251625, AV686830, BE293987, AW961556, BG180156, A1885309, BE796435, BE780280, BE301295, BE746423, AV703004, AA305098, BF035583, BE294731, BF306595, AV703002, BG179712, AL525791, BE298699, BG114053, AW411113, W74495, A1669362, W81038, BF032316, W80993, BE250265, BF308144, BF203753, BE544148, AA164898, BF219917, W52079, AW055121, AU151701, BG026198, C18503, AA826677, AU152875, AA861256, N58519, AA490662, BF107490, AW439205, A1141566, BE295898, BE467825, BF939939, N78110, AA022816, AU145696, A1139127, A1332333, AU144725, A1687696, AA164350, A1131285, AW026846, AA628910, A1312082, W68312, A1160305, A1185908, AA490663, AU131850, AU146589, N52266, AU153513, AA452014, A1144355, BE297017, AV747490, A1362317, A1887487, AA460515, AA628412, AW028103, AA063604, H98032, H98026, A1761235, AA902345, AU150829, A1435142, A1185808, BF204612, AA865476, BE298732, AA128515, BF195219, BG054834, AA834957, AA022724, AU150185, AA452667, AU157170, W79092, A1280837, A1146288, N99570, AW411362, AA406257, A1521491, AU120552, N70514, BF589080, A1375013, BF110251, A1141866, W92519, W69407, AA046582, AA411293, H19196, AA770242, W79442, A1190213, AA406349, A1221257, A1333864, AA866676, BG111370, W03825, AA406194, W68313, W95431, AA903867, W05412, W74422, W74431, A1141157, BF793551, AA653273, A1038020, BE271596, AA694594, AU131039, A1878927, N95320, A1802326, AA305289, AW411114, R18211, BE616934, AW069853, A1471836, BF793734, A1150777, W69593, A1094648, AV693992, N90108, BF365091, AA931449, AA039647, W79185, W73571, AA653287, A1185405, BF330499, R70970, H97401, AA039648, F08689, AA046668, BF038202, AA129961, AA305621, A1871226, AW087931, BE271614, BF309462, W38390, AW802705, AW806684, W94567, AA367561, A1097533, AA621450, R17280, A1057156, A1214700, W76075, A1015116, W95558, W81075, AA693348, BG036963, BE295852, N70464, AA449581, R89201, AA368025, AA991769, W42631, W24562, AA649724, F08884, H97406, AA450357, C15326, R66204, R96759, BG036738, AA328199, F08872, AV685126, T19284, AA460514, W79342, AW044059, AA728839, AU127692, AA331425, BF054990, T51402, R44806, AW023107, AA330284, AV752334, AA340217, AA358762, W79158, AA494531, W73490, AU129611, C15210, N46311, F11207, AX014085, Y11534, D78611, D87367, AC007938, D16262, AL445439, AK002086, AK024414, AF157833, T48441, T52292, R19141, R23196, R23195, R23611, R24673, R25173, R41957, R42149, R41957, R42149, R67082,</p>
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HDTC55	585	102304 6	1 - 520	15 - 534	R70922, H18530, N71560, N72917, W24586, W45234, W81095, W95593, W95659, AA036686, AA594301, AA614281, AA744990, AA903669, AA912250, AA935387, N56192, C14901, AA092504, C14933, C15022, AA091550, AA093911, AA095693, AA205895, AA211924, AA450356, AA598610, AA665512, A1017506, F03758, F11221, A1369005, A1424616, A1422359, A1127146, A1219689, A1205839, A1350451, and AW089816. AA258999, AW968317, AA188896, W37285, AA279200, A1224604, N46923, AC007246, and AC007253.
HOOJQ91	586	102304 9	1 - 1295	15 - 1309	AW168960, A1768465, AA833900, AW513031, AW172822, BE047295, AW168819, A1922412, AA234667, AW167313, AW072542, AA234092, A1733409, BE047365, A147222, AA169392, A1683793, AW150155, A1812106, AW194288, AW189221, A1042034, A1624047, A1564173, A1870263, AW192809, A1743616, BG166439, A1623851, AW419167, AW002809, AA937976, BE047176, A1564249, A1624863, A1623924, A1469088, A1041979, A1871945, A1871951, A1580123, AW205936, BE935573, A1371324, A1554903, A1625585, AA828595, A1783522, A1047564, A1745174, A1566183, BE677512, AA426189, A1826615, A1333335, A1253620, A1347565, A1248726, A1201873, BF433582, A1435879, BE674699, A1367602, AA962745, A1360271, A1417677, BF002902, BE677503, BF109285, BE045621, A1499139, BE315309, A1671362, A1539403, A1674360, BE503132, A1859468, A1301030, A1767147, AW169324, A1694531, AV754007, A1310735, AW157803, BF724651, A1826759, A1279129, A1003585, A1621336, AA827587, A1680494, BE218962, A1078673, A1672366, A1733257, AA789104, AV754606, AA205327, AW170737, A1093680, A1926281, A1619860, A1784110, AW293059, A1800270, AA283760, N25626, AA457543, AA559351, AW473664, AA828577, C75159, AW130212, A1872863, AA302630, BG166851, H46978, AW002819, AA831557, A1200964, AW512414, A1290120, AA464958, AA931732, AW979025, AA405630, A1817564, A1124945, A1478915, AA809727, AA286859, AA283951, AA829588, BF841884, BF346199, AA287165, A1278996, R34748, A1246535, AA253309, BG113717, A1923125, AW971894, BF769175, AA984914, A1370393, AA134112, A1381491, A1793281, AA115873, AA029807, H09578, BF814192, AA234721, AA252903, AA629539, BE932216, A1191747, A1669856, A1565478, AA987462, AA703946, H01491, A1955885, W81069, H17450, BF850162, AA384359, R35085, A1761053, BE963431, AA702262, R51044, R09408, AV750439, AA978001, F12486, AW867924, BE618648, AA757319, A1001988, A1935395, AA526772, H85093, AA582172, AA721397, AA552269, AA721299, AW867939, A1247246, A1453231, F15201, AA384384, BF083266, AW602400, BF940390, BE774537, AW973189, T74222, A1201095, AW867946, A1935681, A1865498, A1804497, F15194, AW977077, A1287361, AA788650, AL080317, AC008554, AC011751, Z98750, AL357654, AL158167, AF179874, AL031073, AC016678, AC010598, AL122001, AC022401, AL157931, AC010877, AC007068, AL121947, Z97876, AP001748, AP001629, AK022175, AC005023, AC011506, U85197, AE000660, AC002301, AL121931, AC012099, AL121593, AL109843, AL353759, AC006313,

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HPDVY62	588	102326 4	1 - 1441	15 - 1455	BF791680, AL157538, AI610419, N76659, BF216785, AW139803, AL079664, HI5335, BE697296, BF906493, BE142894, AW797489, W32059, R55591, BF062564, BE835658, BF766768, BE546573, AV692836, R22184, T85798, BE142893, AW379474, BF687947, AA329802, BE536844, AW903869, AW903870, AW380710, BE819364, AR016730, and D50857.
HLHDK42	589	102333 9	1 - 500	15 - 514	
HLDRQ55	590	102337 5	1 - 409	15 - 423	BE561708, BE397890, BE268639, BE397751, BE397790, BE269151, BE873069, BE268295, AU120617, BE271270, BE268703, BE268701, BE398100, AA334095, AW995307, AW995309, W31960, BF895806, BF931643, BF930965, BG002721, BG002138, BG002722, BG002718, BG005940, BE174438, BF819638, BE167551, BF819433, W76394, BF812079,

HVVBI06	591	102341 4	1 - 1435	15 - 1449	BG002292, BF087746, AK025337, AF034803, AK001131, and U79024. AU121060, AL524073, BE731783, BE733775, BE798760, BE797665, BF982757, BE729218, BE728554, AV723001, AV716494, BF695695, BF242517, BE732954, BF795423, BE879759, BE732923, BE562197, BG115476, BE896076, BE562376, BE794139, BF672980, BF032401, BE732931, BE563691, BE896648, BE885875, BF213466, BE874320, BF665994, AW961027, BF667041, AW961019, BE619281, BF965285, BF184706, BF183836, BE543111, BF240830, BE270698, BF973136, AI114724, BE385687, BE787172, BF978288, BF125558, BE907607, BE391842, BF694036, BF184106, AW951807, BF212993, BF184932, BE734775, AV715859, BF573586, BF697212, BF103826, BF213045, BF701226, BF238438, BF212145, AI525578, AV710440, AV759667, AV703094, BF698530, BE548132, BE748425, BE564883, BF183893, W02952, BF685104, BF212212, BE564063, BE567314, BF028072, BF697499, BF672133, BF695461, BF664731, BF573565, BF212506, BF699650, BE562148, BE958217, AA187814, BE958124, BF695287, BF184999, AV717310, AV706418, BE567531, BE737889, BF103745, BF668704, BF665496, BF242298, BF699106, BF132731, BE566481, AV715122, BE568506, BF571371, BF700006, BE270579, BG110157, BF212115, BF668868, AV715832, AV714082, AA187818, AV714956, BF027705, BF695727, AL524072, BE250921, BE564282, BF207927, BF132342, BF665427, BF208451, BF239518, BE568083, BF184647, BF214386, BF351648, BF668895, BF029289, BF573910, BF212012, BE407757, BF248417, BF132410, BF698893, BF696699, BE563995, AV716411, BF977835, AV715099, BF155127, AA315423, BF029476, BF700327, AA011002, BF030329, BF210488, BF671021, N24411, AV722691, AW631367, BF239345, BF028941, W39678, W07050, AV750423, AA313955, BF744150, AW751793, BF029529, N79718, AA588785, N27672, BF212072, BF211229, BF211856, BF242151, AA037095, BF034657, BE960836, AA101348, BF214352, BF103884, W81499, BF239431, BF698675, BF215318, H82172, AW629729, AV761372, BF215826, AA157381, BF126109, AV756747, AV756268, BF676288, H16955, AV712613, AV762396, T32107, BF667232, BE777574, BG026950, AA157614, AV717904, BF570823, AV658036, BF239745, W40280, AV713889, W16740, BF217052, T59582, AV750431, AV685082, BE775036, BE748945, T35555, AA305434, AV707476, BG035879, AI742758, AV706173, BF701311, BE775071, BE619895, BF695315, BE569188, W24555, BE567258, W65442, BG034184, AA363213, H81955, AL037301, T34594, BF354152, T33932, Z45780, BE709223, AU133503, AV715886, R00935, BE614342, W19245, AW025087, AV755537, BF243756, R22626, T35968, AV656765, AW363004, BE613624, T49361, BF354185, BE254680, N56123, BF753104, BF748791, AF064603, AL078477, AK001768, H95940, W24774, and AA089459. BE903361, BG024522, AU121709, AL520222, AU120408, BF312234, BE280271, AL528866, BG030073, BE735338, AL529949, BE254932, BE873142, BE871646, BE889244, AW445184, AL519310, BF339823, BF944071, AW732693, BF205332, AW370642, AW246161, BE262499, AA702613, AW246057, BE314433, AW361547, AL519664, BF313220, BE280953,
HOCME51	592	102342 2	1 - 820	15 - 834	

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HPDOP74	593	102353 1	1 - 1646	15 - 1660	AL515112, AU142335, BE747636, AL519047, BG034207, AU130268, BE900224, BE79717, BE797012, BE794333, AU120518, BE741737, AU121130, BG163776, BF035644, BE793884, BG258183, BE791478, BE790974, BE744546, BE734152, BE787289, BF569162, BE744251, BE903073, BF025650, BE791225, AU122661, BE733512, BE561359, BE270507, BF984460, BF568938, BF311137, BE732820, BE253671, BE274893, BE740907, BE382686, AU131487, BE908861, BE901585, BG251242, BF317343, BG255108, BE270700, BE730619, BE733166, BE790899, BE513857, BF974994, AU143085, BE296428, BF037558, BF972271, BE562328, BE733956, BE397680, BF568100, BE548679, BF969945, BE898349, BE541044, BE386114, BE732240, BE264178, BG255263, BF308361, AI246046, BE269817, BE257703, AA928500, BE251347, BE787474, AV714041, BG119567, BG030821, BE884879, BE386634, BF308115, BE268046, BE267345, BE539029, BG258880, BE792587, BE255191, BF305594, BE560772, AA402325, AI003495, BE902573, BE295292, BE270267, BE536427, BE384555, BE397681, BG027207, AW733034, AW410847, AW950871, AI859597, BE182609, BE514319, BE182688, BE267828, BF797623, BF305378, BE562077, BF316656, BE275737, BE270325, BG027977, BE252374, BE294306, BE390156, BE389542, BE257279, BF791831, BF309261, BE280388, BE513455, BF313867, BE269096, AW079058, BE263474, BE384067, AV733594, BE895782, BE279042, AW369617, AW733030, AW473344, BF125667, AW169145, BE260112, AU126285, BE894716, AW276653, AA074628, BE277505, AI597736, BG256576, AW247190, BG121290, BF303833, BG249325, BE622224, BF312323, BE252020, BE539532, BE886264, BE256126, BF206827, BF692334, BE268057, AI859592, AA187762, BE279598, BE542589, BE265697, BE798811, BG180827, AA595282, AA081122, BE388284, BE537314, AI888202, BE901326, BE256075, BE387931, BE294099, AI672924, BF315163, BF695645, BE398080, BF983598, BF128665, BE394973, BF838286, BF206986, BE295035, AW247314, BE312949, BE542939, BE301402, AA736416, BE622625, AA402733, AA479876, BF125389, AL038991, AA147791, BE743553, AA075926, AW959817, BE567356, AA191539, AW008725, BE791264, BE259660, AI689394, BE933968, AA588318, AW238920, AA308544, BF209071, BE304572, AA189167, BG255226, AA479766, BG179204, AW247110, AA903041, AI241523, BF238540, AW406842, AA306580, AA155786, AU151057, BG249268, AW733038, BE208529, AU128829, AU159673, AW169059, AA583794, AI475144, AA081167, BE386908, AA488332, AA724742, BE297085, BF033617, BE798264, BE267981, BE149825, AI673444, N52020, AI298290, AA983274, W28391, BF209617, BF840705, AW138544, AA443586, AW966061, BF058848, AW581061, BE263571, C06415, U59435, AR035973, U87954,

HMSOH12	594	102354 5	1 - 1560	15 - 1574	<p>U43918, AL136460, X84789, AC008162, AK025367, AF104670, AF104669, AF104668, U50137, T60042, R35982, R36352, R71676, R71708, R81258, N54633, W20488, W32732, W52392, W51819, W56672, W56737, W69199, W69303, AA076403, AA076454, AA079384, AA079383, AA081307, AA081168, AA099395, AA132481, AA132570, AA147141, AA156100, AA165319, AA181561, AA181578, AA181624, AA182455, AA182912, AA182814, AA181655, AA190808, AA190417, AA191261, AA458462, AA470439, F17035, AA639129, AA662724, AA721774, AA766633, AA857053, AA913208, AA928625, AA961793, AA973882, AA988170, AA992505, AI014379, AI094926, C06389, AA652227, AA654799, AA630056, AA705864, AA780574, AA782707, AA285325, AA890095, AA773549, AA909242, AA918464, AA960895, D19814, T25841, T25842, Z40951, Z45227, AI242528, AI307527, AI344273, AI345338, AI349794, AI349939, AI351068, AI345475, AI369411, AI199410, AI392985, AI433531, AI472570, AI399695, AI419196, AI479437, AI421364, AI187810, AI651014, AI338887, AI612035, AI866735, AI873834, AI886925, AI872563, AI811445, AI952169, AW000888, AW015812, AW074822, AW075175, AW151323, AW168991, AW196415, AW204055, AW236418, AW188908, AW303164, AW304598, and AW341319.</p> <p>AL533942, AL517106, AL519158, BF969343, AU123953, BE274430, AL079359, AL516731, AU119388, AU137581, BG260794, BE729363, AU126169, BF968356, AI613467, BE891343, BE856952, AI300483, AV758159, AW193927, BG253821, BE561707, BF685254, BF025714, BF204435, BE535183, AW189984, BE615514, AW411390, AA843807, BG110117, AW130652, BF686761, BE251866, BG106071, BE866866, AI922394, BG109089, BG259964, AI201699, BE390849, BE879520, BE397528, AW511981, AI963633, BE856814, AI423945, BG031061, BE514238, BG254463, AW245885, BF797060, BE618666, BF240199, BE270714, BF237622, BE391206, BG251685, BG231965, BE735492, BF576343, BE543072, AW245627, BE874828, AI949356, AA528085, BG058617, BE542855, AA922069, BG058783, AW675410, AI676057, BE563941, BG110677, BE963465, AA586624, AW081836, BE258732, BE737235, AA578813, AW304104, AI687719, AA205408, AV693973, AA599128, AI829317, AW249959, BG167562, BF793110, BF312730, BG171677, BE537970, AA863168, W58256, AI332541, AW411391, BG179859, BE869765, BE391483, AA962825, AA192343, AA563661, AI610728, BE256347, BG149625, AA583073, W38880, BE788717, AI128002, AA862353, BF034961, AU157285, BE270231, BF126612, AI077779, BE265418, AA129387, BE408325, AU145745, AI094998, AI951183, AA868941, AI089484, AW591545, BF684418, BE397990, AW768554, BE729211, BF241282, BE866301, BE263533, BE392663, AW104917, BE793386, BF338208, BE270930, AW970516, BE794328, AI159843, AI361579, AA970295, W58431, AW078838, AI352387, BE222412, AA977387, AI922344, AW246226, AI359386, AI539440, AW007996, AA232540, AW950483, AI361670, BF970307, AI120366, AI300132, AL514702, AW009776, AI185747, AA282066, AA099319, AI939298, AI284003, AI809064, W69208, AI538039,</p>
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HOPJG50	595	102358 4	1 - 999	15 - 1013	<p>AI818136, BE254699, BE394136, AI248736, AA128015, AA128058, BE740292, BE394007, AV715517, AA181138, AA946918, BE386219, BE384197, BF115774, AA505384, AI342431, BF663605, AA421550, BE383454, BE856060, BF238135, AW327294, BF975044, BG109613, BF306933, BF971761, BF796461, BF976338, F31091, BF205908, BG059331, BF594887, AW630281, BG031772, BG059327, AV703551, AA528669, AV758129, BF965194, BE901363, AA420717, F31092, BG059237, AA622408, AA482925, AA417254, AA635583, W68664, AA651658, AA314600, AW957853, AW957776, AA825612, BE254347, AA316648, W52650, AI348852, AA991834, AA505394, AI879569, AV758078, AA187998, AA186606, BE378595, BF664191, BG167921, BF792168, AA862109, AW772715, AA314556, N90275, BF204194, BE542238, BE565986, BE733273, BF664460, BF984965, AA307087, AA187537, BG110426, BG059284, BG059404, AA640483, W81029, BF691633, W96306, AA808869, BF973784, AA653801, AV757649, AV758634, BG111334, BF974782, F32467, AV757915, BF975405, BF217288, AA775298, BF203200, BE910168, BG027738, BG171050, N78682, AA420763, AA469168, AA314013, BF033360, BE733420, AA187128, AI879186, BG033224, AA579430, BF664216, BE254952, AA654628, AA506547, F33074, BE382775, W45176, AV759520, AI735276, AA225075, AW082068, AA484856, BE393379, BE408834, AW512614, AA737195, AA838376, AI185905, BE972548, AA155975, AA147815, AI090379, AV716040, AA534263, AW440264, AI185191, AI830011, BE382375, BE563028, BF128567, AW651774, AI336250, AA541346, AI193986, AI004885, BE718987, AI598223, BE256235, AA469285, AI817453, F25989, BE876006, AW328419, AW276969, AA643777, AI735264, AV761604, AI718714, AA157591, AA960763, AV755428, AW328418, AA524595, BF971668, BE386711, F28423, BF182680, AW006688, AI140252, AI131544, AA528681, AA844667, AI193088, BE729049, BE745551, C14506, AA315116, AA181285, AI718105, AA659113, AA483568, F30622,</p>

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HDUAB04	596	102358 5	1 - 448	15 - 462	BE383454, AV758129, BG031772, BF691633, BF975044, BF971761, BG167921, AW327294, BG109613, BE740292, BG110426, AV758078, AV703551, BF238135, BF796461, BG059327, BF306933, BF976338, BF203200, BF663605, BE901363, AW957776, BF204194, BG027738, AI348852, F31091, BF965194, BF205908, BE254952, BG059331, BF975405, BE733273, F31092, BF664460, BF217288, AA187998, AW630281, BF664216, AA482925, AI879569, AV757915, W81029, BG171050, AA420717, AA505384, BF594887, BG059237, BG168189, AA314600, BG059404, AA528669, AW328419, AA946918, BF974782, AA825612, BF984965, AA316648, BE972548, BG033224, AA808869, W45176, AW772715, AA651658, AA314556, AV716040, AI735276, AV715517, BE254699, BE394007, BE386219, AA417254, BF128567, AI336250, AI342431, BE384197, AW328418, AA622408, AA181138, W52650, W68664, AA635583, AA991834, AA506547, AA187537, AA128015, BG111334, BE254347, AA640483, W96306, AA524595, AA505394, AV758634, AA186606, BF971668, AW651774, BF247412, BE973930, BG059284, AI879186, AV757649, BE378595, AA862109, BF976593, N90275, BE514672, AA187128, AV759520, AA659642, AA737195, AA307087, AA579430, AA643777, F32467, AA654628, F33074, AW082068, AV712900, AA534263, AA484856, AA653801, AV712234, AA469168, AA420763, AI090379, BE563028, AV761604, AA421550, AA775298, AA469285, AW419243, BE910168, AV755428, AV756384, N78682, AA225075, AA314013, BF033360, BE876006, BF792168, BE386711, CI15999, AI735264, BE394136, AA315116, BE382775, AI004885, AI185905, AW512614, BE393379, BE408834, BF663886, AA155975, BF664191, AA541346, AW006688, AA838376, AA507479, AA528681, AA147815, AW440264, BF229948, BE746138, F25989, AI718105, BE382375, AI185191, AI830011, BE379420, AI074436, AI193986, BE729994, AV712506, BG032569, AA483568, BE718987, AA844667, BE256235, F30622, AI598223, AI431978, AA157591, AW340929, BF214496, AI718714, AA147943, AA960763, AI140252, AI131544, AA659113, AA226596, F28423, BE297049, BE729049, BE745551, AI193088, AI749326, CI4506,



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HVCAA38	597	102363 2	1 - 1881	15 - 1895	<p>AI188505, BF690148, BF026738, BE788073, BE898975, BE872049, AI435132, BE383746, BF308312, BG258166, BF694124, BE884481, BE408721, BF983315, BG117199, BE867529, BE883599, BG261272, BE547963, BE869321, BE781308, BE273912, BG120340, BE390408, BF701584, BE294796, BE254258, BE781562, BF572434, BE734910, BG166671, AI628151, BG107904, BE542491, BE513760, BF875036, BE899600, BE390388, BF573297, BF800744, AW576708, AW167495, BE737346, BG166882, BE537104, BF891446, BF691926, AI986317, BF032400, AI689319, BF978102, BE547697, BE311874, BF875033, BE251238, BF306345, AW474689, BE067396, AI818366, AA829547, AI890186, AI625627, AW406071, BF030190, AW602388, AI471529, BE729272, AI832672, AI264133, BE315337, AW602377, AI951259, AI453338, BF155219, AW194423, AV699660, AI742460, AI554203, BF735907, AW249669, BF103554, AI908534, BE926725, BF155217, BE841013, AW630280, AI908533, AA845523, BF435454, BE841086, AI890009, BG099267, BF954723, BF057338, BF155213, AI041493, AW963691, BF574098, BF993745, AW749056, AA808803, AW514103, BF241085, BE841074, BF154859, BF993068, AV697408, BF993051, BF687628, BF673244, BF993053, AA535205, AI347034, AW996038, AI802621, AA307884, BF448502, AA160676, BF880126, N78245, BG036223, AI309723, BF818130, AA127400, AA143616, BF993729, AI401183, AI040598, AW001929, BF993069, BE090182, AA325821, AA835782, AI149464, BF435381, AI418509, AA587859, AA471078, AI926581, BE709522, AI745057, AI085482, BF377218, N30249, BF829811, N89709, BF744782, AI285420, AW196928, AA429190, BF744790, AI457742, AA315417, AI083846, AI922030, AA228297, AI927340, AW852051, AI278800, AW007617, AI923978, AA682618, AA812310, AI208833, BF993737, BF842137, AI348213, BE737293, BE709835, W31768, AA932491, AI282881, BE081442, BF878066, N53008, AV710099, AI445220, BF876057, AI804562, BF741906, AW513811, AW874017, AA88890, AV744592, BF746098, AA535214, AA526237, AI735616, AW473285, AA394240, BE294297, BE841103, AW796137, AW796022, BF993736, BF876043, AA541276, AI201802, AW273423, BF800720, AW769141, BE910281, BE044038, BF154866, BE694358, AA467948, AA484779, BF724294, AW377401, AW406805, BE926713, W58457, BF673512, N51721, BF155208,</p>

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HIBC N87	598	102383 7	1 - 1739	15 - 1753	AL043219, AL528050, AW579882, AL528049, BF976767, BF337065, AW088366, AW953211, AA496850, BF525754, AW152013, BE672597, AW243555, BE779803, AI818186, HI7775, AI653697, BE251084, R54236, AU160597, AU150608, BE208597, AA496891, AI871013, AA428540, AA349190, AW249598, BF350791, AI701503, BE502287, T18883, AI202674, AU151739, AU152190, AW732070, AI376266, BE265052, AW139928, AI299710, AI888510, BE206965, AI658535, AW341396, AA912087, BF224111, AA694485, AA432221,

HPCOM04	599	102400 0	1 - 1342	15 - 1356	<p>H15962, AI887614, T33286, H17658, T70417, BF796844, BE781492, AI571236, Z42914, AI299136, R56443, BE799943, BF447467, BE207026, R51367, AI367595, AI420610, AI825055, AA928620, T70333, AI681192, AI499499, AI197972, AA664995, BE045622, AI961711, AI184815, AA888827, AA768736, AI659770, AA292170, AI383839, AI888009, R51842, AA973896, AW470342, R51471, AI915171, AI989713, BF802487, AI275745, AI934660, Z39039, BE790546, AU143415, AA634437, BF916287, AW137356, AA350162, F04023, AI762348, AI253211, BE796050, BF087964, BE779508, AI824874, AU127725, AA339597, AW007750, AF006264, AK001435, and AL136295.</p> <p>AUI137948, BE732925, BF690153, BG110479, AI880007, BG117063, BE737241, AI096638, BF689592, BG031671, BF689927, BF981348, BE789262, AA650580, AI937557, AI375969, BE311932, BE732718, BE875564, BE796717, BG249034, AW993276, AI935882, AI827325, BF195642, AUI138244, BF978329, BE901225, BF724224, BF663157, AUI38853, BG167961, BF983160, AI565049, BF675056, BE735148, BE208441, AW007269, AW474581, AI811416, AW512490, BE537152, AI394457, BE908038, BE390978, AV714928, AI815707, BF035422, BF690746, AI872419, BE564792, AW261937, AW249280, AI954589, BE328621, AA167716, AI986422, AI610874, AI690554, AW027298, AA482429, AI859711, BE617557, BE268777, BF666984, BF316279, AI192096, AI125655, BE268146, BE566350, AA604148, AW872854, AA482577, AW731873, BF976473, BF976779, BE266210, BF969151, BF977031, BF037315, BE884588, AI445958, AI241239, BF217023, BF690500, AI205151, AW890146, BF968322, AA430465, BG249419, AI452854, BF211136, AI244306, BF036610, BE276002, AW406069, N37040, BE833837, AI313126, BF978341, AI984578, N25097, BE075030, AA209261, AA577325, BE617037, AW129083, BE294126, BE385487, AW248858, AI423888, BE901011, AI631249, AA825989, AI346456, AI754793, N34759, AW951724, AA721967, AA025017, AA167690, AA186691, BF572132, AI033032, AI199653, AA410785, AW628434, AW961228, AA223182, AW383561, AW130110, AA993544, AI434241, AA315661, AI148604, BF852967, AI146930, AW264131, AA402640, AW804839, AI581297, BF572484, BF214530, N44487, AW406480, AI929835, AA729986, N54517, BE294000, AA651890, AI929680, AA743236, AI200938, AI189043, AA630021, AI370316, AI344449, AI096592, BE266835, AU123048, W79435, AW238534, AA657984, AA916902, BF944514, AA223181, AA814339, AA908742, AA326149, AA402678, AV735139, AA676363, AA903484, N74250, AI028429, BF972395, AW028466, AI310990, AA210855, AI922260, AI042267, AW803870, AU157781, W01225, AA316640, AA281248, AI076387, AI816978, AA991151, BE122790, AI952588, H82713, BF733507, AW605416, AA969774, AA417613, BF851576, AA160587, BE383560, N26274, AA047620, W88589, N26413, AI871982, AA281282, N33470, AA047631, BE714780, AA747812, F06434, AA435943, AA706103, BE185399, AA223080, AI004905, R20216, H23883, F02720, W35102, AA308893, H83581, AU157386, BE710321, BF081680, AA308293, AV750796, AA312134, N76220, BF445687, N94006, AA380998, BF088514, BF055957,</p>
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	600	102406 9	1 - 595	15 - 609		C14126, AA326148, BF088513, F31166, F07549, AA419619, AW794588, BF958887, AW407103, H23779, BF378274, F37037, R11089, H46474, H80744, AA324971, AA769640, X76228, X71491, AC007666, J03244, AC000052, U13841, AC006447, AC006404, AC004019, AC008639, AC006285, AC005745, T39773, T92743, T92823, R11039, R26845, R27074, R28563, R30929, R30968, R43304, R43304, H80745, H92254, H92591, H96836, H99581, H99582, N33930, N57383, W20369, W39348, W57566, W79336, W88588, AA025016, AA063051, AA063125, AA179265, AA182704, AA186690, AA235400, AA470721, AA480327, AA534792, AA534812, AA662433, AA738338, AA873381, L48829, AA722508, Z21590, D19690, F01892, F02081, F05631, F05834, F03787, F04732, F07642, F08517, AI363770, AI625707, AI217553, AI590006, AI818932, AI865372, AI869423, AW025618, and AW467872.
HUCPU06	601	102433 2	1 - 1440	15 - 1454		AL522138, AI817797, BF591323, AI559256, BF056383, AW974310, W72957, AA811503, AA760845, AI089886, AI674666, BF434883, AI312117, AI671353, AI419476, AA812245, T48877, AW169965, BF112033, AI580681, AA721145, AI811882, AA765055, AA732428, AI864632, AW002193, AI424549, BE932108, BE932117, AA383587, BF589530, AW129622, T48878, W68575, AI401136, AW235778, AF083110, AL441883, and AK000355.
HPAME01	602	102447 2	1 - 3008	15 - 3022		AL040438, BE262712, AU123643, BE798924, AU143022, BG164610, BE787475, BE735652, BG254114, BF315064, BE548296, BG025483, AW043583, BF037500, AU148999, AW517244, AI017434, AI768112, AW965752, AA047010, BG057666, BE326718, BE840788, AI765202, AU152678, AA046839, BE886667, BE799653, BE873222, AI123786, BE206421, AI568134, W87554, AW007334, AW168272, W87458, AA039966, AI057398, AA649997, AI563942, AA039881, AW615376, AI702051, AI632460, R60577, AI382155, BG056987, BE884461, BF036417, W76508, AW102774, AI805104, T17221, AI582553, AI280130, AI521797, AI146735, BG055800, Z45024, AA029772, W71994, BE888112, H10997, R60630, R71392, AW590867, H06328, AW405412, T79990, AA865941, BE797440, H26530, H06281, AA310656, R72562, R46835, BE466122, R25837, BE671795, AW590690, BF059221, R53484, AI417500, BF437704, AA069571, BE463599, AA776517, AA069563, AW090661, AW771994, AI784405, R16372, AI078071, AA705373, AI245359, BE617310, AI624303, AA029771, AA379004, R32657, AI983105, Z40755, BE962199, BE729964, BG027348, AA057673, AA524160, R42317, AW105627, AI813991, BE617799, R53485, BF514051, AU125314, AI475001, BE562858, AA359216, AK025491, AL031447, AK001599, AF052158, AL109978, and AF086370.
HTTIS76	602	102447 2	1 - 3008	15 - 3022		AU118623, AL523820, AL520683, AL520684, AU123813, AU132757, BG261175, AU136445, BF035325, BE886876, BF791811, AU140005, BF577027, AI770169, AA534741, AI031962, AW264176, AI633666, AW960637, AU154227, AI400200, BF248362, BE543836, AU145138, AI128021, AA418100, BF337497, BF445849, AA418003, W92114, AV727247, BG169934, AI601276, AI271884, AW958009, AA603027, BF735235, AI128480, AI352141, AA989285,

HCOR157	603	102455 6	1 - 1699	15 - 1713	<p>N33438, AA758632, AI719696, AA626711, AW169051, AI367058, AI807645, AA025147, AI683459, AI418307, N27453, BE709892, AI801307, W73531, AI473939, AI393527, N27526, AI086555, BE044047, H98611, N40343, AI653277, AU156726, AI267316, AI800443, AI440207, N23059, N24304, AI149146, AA639478, AI673797, AI241204, AA169836, AA927390, N70474, AA437065, AV645472, AI037903, AI620950, BG170200, AI025766, AW105671, AI037991, AI355861, AI816981, W92034, AI033936, AI537160, N36939, R59331, N34742, BE467926, AA234708, AV728508, N42636, N49175, R59330, AI351986, N34978, AA513140, AA169656, BE090132, AA423958, N41497, AI299478, AI023063, AA910291, AI264740, M78546, N62321, AA911195, N30733, BF088943, AA336071, AA025130, R67869, T87946, AI267563, H04320, N71038, W73254, Z38548, H22037, H22114, AI215549, R21186, AW384814, H63943, N28724, R35013, D62528, AA644251, AA384985, Z41971, N42412, AW440041, H63664, R22804, D79857, H98733, AA515858, AA234777, Z42315, F01492, W01936, AI079112, R49401, N50229, BF433427, N41346, BF215260, H89141, BF348319, R82508, T30380, AA025146, H04362, D81424, AA558318, BE566281, R82564, AV693130, AV683210, AI203430, BE782752, BE565731, AA025129, AA047023, BF816685, AA669655, AC006333, AK023554, D88460, E15468, D67066, E15749, D88461, and E15469.</p> <p>AL518234, AL517420, AL518235, AL517421, AU119983, BE798338, BG112454, AV707371, BG260531, AU127995, AI189917, AI921102, BF978880, BF669190, AI884858, BF027153, AW338093, BE466119, AW953727, BF979160, AU139989, BF978466, BE783488, AI183437, AI954430, BF791557, BF978243, BF025817, AW261922, BF978088, BF107349, BE075024, BE778589, AI680398, BF673817, BF978523, BF978407, BF701537, BE566570, AI768673, AI201541, BG163251, AW304397, AW183634, BF571803, AL038118, AW130034, BG170433, BE175735, BF515534, BG004699, AU150344, AI183432, BF732458, BE785549, AI792331, AI689697, BF691267, BF691829, AI792274, AU129140, BF977366, BF793882, AI743234, AA209379, BF667452, BF691937, AU134136, BF692573, BE350861, BF509852, AV731487, AW993769, BF515273, W58689, BF675402, AW338336, AI091201, BE565598, BF940666, AI435388, AI564223, AA136469, AW022986, AW951400, BF382040, AW044585, AI334655, BF977189, AI087941, W16647, BE440085, BF978269, AI954779, AW439739, BF977224, C17665, BF691699, AW589843, BF086829, AI962856, AW993713, BE813383, AA635975, T41075, N67348, AA669436, BF205542, BE840232, T40208, N55699, C01780, AW969659, W58688, BF691679, H13469, AA501438, AW627340, N88289, BG163724, AI753097, BF204709, BE827968, N88012, BE819566, BF957218, D59346, C04830, N99580, BF990912, R58442, BE009393, N66008, AI963279, AW088858, BF990569, BF691146, AA129069, AA371029, H13424, AI671008, AW000997, BG004453, N56423, BF977622, BF570803, AW270948, BF925478, AW235351, BF571561, AA095713, AA247163, BF573202, BF977815, BF572251, AA936152, BF057702, BF752392, BE930777, BF570501, AW135218, U42349, AC010656, U42360, U42350, AF028729, U42351, U42353, U42354, U42352,</p>
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HOPKF60	606	102504 7	1 - 1153	15 - 1167	AL522806, AL530716, AL524869, AL514554, AL522807, AL528660, BE744476, AL524868, BE795215, AL530715, AL523498, BE746558, BE515281, BE732657, BF026691, BE562270, BE794244, BE614715, BE796153, AL528995, BF342150, BE562318, BE795209, BE799700, BE792917, BE619480, BF312162, BE271742, BE793871, BE561217, BE797758, BF347395, BE729940, AL528659, BE792758, BE791304, BE737213, BG120307, BE619803, BF317146, BF338124, AW170427, BE797844, BE889282, BF975387, AI085365, BG250716, BE901025, BG025112, BE873025, BE615263, BG034888, BE792059, BG254776, BE546203, BE559492, BG032030, BE743855, BF036116, BE793590, BF686394, BG122718, BE902113, BG034948, BE781511, BF127707, BF526475, BE512980, BG120775, BF311006, BE731573, BE619277, BE270019, BF684500, AI680336, BE745659, BE743493, BF115664, BE280108, BG165341, BE280395, BF973317, BG178740, BE514708, AW170278, BE879370, AW163631, AA843221, BG030875, BE732891, BF975820, BE732780, BE883748, BF697912, BE295042, AW157317, BE903040, BE386716, BE272986, BE791688, BE875650, BE260624, BE794044, AW163373, BE561670, BE272733, BE396802, BF316171, BF317100, BG106562, BE883648, AA824336, BE256051, BE269078, AI192786, BF341436, AL528994, BE902919, BE260595, BG118678, BE788586, BE270049, BE302709, AW732756, BE619890, AA523285, AW246027, BE385288, BE396967, AA933089, BE674906, BE408276, BE408481, AW673443, BE268753, BE314775, BF308951, AI591067, AA779812, AA265564, AI073973, BE397633, BE383129, BG236109, BG167939, AI027987, BF692078, BF345293, AA512937, BE267414, AI992135, AI357176,



	607	102510 2	1 - 1398	15 - 1412	<p>AI928891, BF341817, BF435054, AI891047, BE903013, AW675768, BG030953, BF037949, AA577581, BE252457, AI027989, AA643152, BF685218, AI185759, BE731624, AW161746, BG056537, AW327969, AI923284, AI580036, BE267790, AI951177, AI631081, BE779130, AI568168, BE208683, BE292876, AW166779, AI929140, AA459096, AA813071, AA722354, AI887538, AI031764, AA480057, AA458901, AI102451, AI372093, AA523194, AW175934, BE386586, AA976926, AA974441, AA968695, BF215646, AA148225, AI986389, AW961319, AA417257, BE268756, AW162293, AI857843, AI245211, AI276716, AW574602, AI073857, AI138933, BF244323, AA417116, AI252636, AA397788, AW405849, AW161139, AW327970, AW515933, AI083704, AI208491, AW160329, AI280897, AA595784, AA877354, AI538971, AA907137, AI520873, AA862399, AA580420, AA410871, AA776511, N24774, BF303729, AW473720, AA166670, BG059730, AA410870, AA860537, AA312499, BE899315, AI751720, AA205346, AA497015, AI751721, AI924241, AA458542, AA771950, AW148600, AA312712, AA143411, W95353, AJ131182, AR033742, AJ249366, X76980, AC005197, AB042117, Z32554, AB039837, AX011613, AC002985, U89427, AK023303, T96449, R36056, R36058, R76352, HI3390, HI4662, HI7586, N32793, AA148224, AA156391, AA158958, AA164777, AA634997, and AA283289.</p>
HBDAD74	607	102510 2	1 - 1398	15 - 1412	<p>BE736801, BF969590, BF106136, AA625524, AU121352, BE897109, AA043108, AU145998, BF033072, AI936576, BF376388, AI801002, AU147185, BF439149, BG055473, AW269599, AW611722, AW952922, AW301615, BF197125, AI459912, AA926686, AW467409, BE077028, AA838345, AI093893, AA278828, AI659015, BF376386, AA838242, AW058479, AA487243, AA809385, BF091565, T03425, AV648362, D52837, AL043290, AA609681, AI250181, AA811075, AA772712, AW771863, AW090763, AU117211, AA731830, AA922247, F08952, T32447, H83659, AA731456, AA836501, Z30140, AA278826, D56794, AA099843, D57988, T99109, BF969193, N43955, BE220184, AI298948, BE784156, BF576720, D57308, T86662, AW341298, AA962369, AW935658, AA508234, AW402414, AB014566, and AK021890.</p>
HPCTY12	608	102523 1	1 - 1832	15 - 1846	<p>BE793649, BF971197, BE795708, BE263381, BE746308, BG110568, BE389356, BE797452, BE745259, BG257094, AW136364, BE294558, BE466733, BE514731, AW512259, AI333322, AA809127, BE300827, BF131512, BG258996, AW167047, AI283089, W87879, AW675811, AW418601, AU149253, AI802251, AI885862, AW181883, AW769136, AI969152, AW672754, AI825472, AI494276, AW379444, AW189438, AA115381, AI278255, BE768392, AA115380, AU125640, AW839959, AW058036, BF109114, BE535699, AW275265, AW731809, AI559688, AI283087, AI002252, BF031735, BE208171, AA679712, AW089758, AI696514, BE794062, AA853283, BE791318, AA853284, BF754628, T16124, BE074565, AI446312, BF361357, AI468188, BE464592, AW889974, AW373076, AI417732, AW386230, AW134955, AW386248, BF091908, AW373100, AW386251, BE514198, BE208475, AW372712, AW386250, AW386279, BF927794, AW372691, AW372725, BE314800, BE170974,</p>

HFASF12	609	102532 7	1 - 580	15 - 594	AW840009, BF361354, AW386246, AW793239, AW277013, AW386226, AW151342, AW382754, AW749244, AW383534, AI887884, AW372690, AW793182, AW383548, AW383633, BF310492, BF081796, AW372727, AW372711, AW386261, BE265396, BE397479, BF525638, BF664199, AF098162, AK022702, AK000721, and AB015597.
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HOCYP47	616	102596 5	1 - 3120	15 - 3134	AL534216, AU124415, AL534215, AU124249, BE793898, AU132166, BE792345, BG111555, AV688850, BG171107, BG028492, BF969425, AI801432, BG108221, BF338327, BF663592, BE619881, BF746890, BE731858, AW965641, BF665525, BG122860, BE003409, BE788680,

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HOVKE20	617	102599 0	1 - 2538	15 - 2552	AL530585, AL530586, BE905291, BG250173, AV704437, BE273888, AI742702, AI332375, AW965981, BE733696, BE279265, AI653228, AI823770, AI744071, AA421552, BG165821, BF850738, AI935219, AI089481, AW025353, AI860928, AW024596, N32892, AI803496, N75101, BE207042, AA552990, AI082854, AW675170, AW262745, AW732799, AI128345, AW615487, BF593160, AW467397, AV704688, BG150549, AI089227, AA227791, N52331,



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HODGH47	618	102613 9	1 - 2096	15 - 2110	AV714319, BE245435, BF085080, BE883963, BE315412, T67179, BE731249, BE732012, AW501306, BE077539, AC007041, AF315591, and AF315590.
HODBK27	619	102637 2	1 - 871	15 - 885	AI949324, AI741823, AI936022, AI521629, AI831928, AI972082, AI653975, AI814061, AA910962, AI811709, AW025174, AW806878, AV701632, AA731734, AI862610, AA873562, AA195939, AA421230, AA187668, AW572118, BE350701, AI979136, AA846807, AA034130, AI025114, BE464579, AA947329, AV716043, AA700178, AA039676, AW590977, AI004713, AI889534, AA173931, AI817532, AW130669, AA554142, AA025463, AI753419, W76541, AA947549, AI811560, AI620263, AA009979, AA923500, AA731843, BG179192, AA482908, AA723321, AW023989, AA009980, AA056428, N79453, BE540962, W74316, AI630489, N22616, AA313112, AA968641, AI362535, AW391946, AV703316, AW389675, AA508074, BF197789, AA923028, AI262937, AW515512, AI347796, AW386921, AW392064, BE326822, BE162244, AI440446, BE162241, AV756239, AW392091, AW675605, AA477452, AW601973, BF216423, AW006885, F03610, AA477578, AW043887, AW866509, AA334983, R38720, AI865307, AI689187, AA313113, AW803685, AW271368, AI203830, AA505748, N63156, N28919, AI038034, AA025462, AW392164, AI370254, AW002736, AW392182, BF890740, AW083663, DI2030, AA370115, AI745442, AA311321, N23815, AI289078, AI074527, BF673031, AA022500, AA074248, BE882680, BE783374, AI082722, BF985227, BG112403, BE825572, BE765224, BE766662, AA026883, BE708355, BE185094, AA421229, BE939600, BE764981, BG055150, AA730850, N63214, AI869433, AA262825, AW024035, AI074531, BF672955, AW362308, AI814134, AW948438, AW362258, BF571408, AA279008, AW373179, T82703, BF754687, W79250, AI174532, BF357809, C15105, AW960469, AW958927, R29652, AF070540, AF054284, AL137410, AF130099, AX013757, and AR018138.
HE8CH59	620	102680 5	1 - 3000	15 - 3014	AL521879, AL528488, AL528519, AL533556, BE277263, AL521249, BF969645, BE796292, BF339523, AV688166, BE384607, BE793205, BE799022, BF341655, BE792421, BE793076, BE179035, AU120222, BF686701, BF343123, AI912668, BF516065, BE255283, BF514039,

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HSKGR52	621	102691 1	1 - 943	15 - 957	<p>BG026286, BE729382, BE563873, BE409361, BE392296, BE669943, BE218622, BF000652, BF433096, BE465008, BF057153, BE504280, AW027774, AI675461, AI620226, BF591621, BF510496, AI652839, BF433368, AI291296, AI809638, AI400625, AI423961, AI092358, AI681604, AW242346, AA846296, AA846276, AW410676, AI261659, AI085293, AI763186, BE504486, AI867792, AW872376, AA505813, AA962236, AI689885, BF939912, AI279838, AW243337, AI872951, AI077828, AI205630, AI936344, AA505678, AA304442, AI827344, AI301986, AI472586, AW999384, AI698391, BF032768, BF814449, BF895953, AA427700, AV755581, AI280661, AI687127, AI889168, AI677797, BF528433, AL037558, BF340323, AW827289, AI358701, AI690813, BF343241, BE964614, AV682875, BF812960, BF343172, AW129106, AI568138, AL042382, BF970449, AI582912, AW265004, AI254727, AI537617, AW083750, AI277008, BG029008, AW019985, AI365256, BG180273, AL037582, BG105895, AV681731, AW673679, AW169604, AA437338, AL037602, AV729953, AL110306, BG029829, BE769091, AI669639, BE876049, AI929108, BF873239, AI872148, AV735353, BF752858, AI624693, AI802240, AW167918, AI089970, BF751347, AI961589, AL119863, AI359787, BE962727, BF886214, AW082532, AI537677, BF792961, AW583714, AI950664, BE965121, AI335426, AI348777, AV709390, AV703585, AI249946, AL038529, BF909758, AA470523, AI591228, AI570966, AL514717, BF868489, AW827206, BG034550, AL119791, BE878989, BG107847, AL040241, AI273843, AI758528, AW081866, AV755459, AW083573, AW827285, BG113299, BF970652, BF037484, AW051059, AI670009, BF814450, AI433157, AI702073, AW161579, AI567582, BF812961, AI270183, AI521095, AW023338, AI612759, BF036115, AI889189, BG250213, AI288285, AI633125, AI570861, BE895585, BF871314,</p>

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HMUAQ05	622	102691 3	1 - 1600	15 - 1614	AL359601, AF130099, M27260, AL117457, I09499, AJ003118, AF146568, E01614, E13364, AF081197, AF081195, AF230496, A18788, AK027096, AB050510, AF225424, AF116654, AF130105, AK027164, AK026647, AB050431, AF254119, AB047904, AX027129, AL133014, X72889, AK027116, A21103, AF116691, AF094850, AF126247, AK026894, AR038969, and AF130075.
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HCOMA45	623	102697 9	1 - 606	15 - 620	BG120722, AU119018, BF978867, BE889331, W27132, AU153520, BG113292, AW009216, BF247311, BF184156, AI630279, BE734748, AA766615, BE739013, AK001549, and AJ296153.
HE2K145	624	102700 7	1 - 3373	15 - 3387	AL536336, AL536335, AL523966, AL530021, AL530022, AU117518, AU117962, BE747075, AU134825, BF683999, AU130396, BF000235, BE746436, AU126073, AI621215, BG118397, BG116482, AU139709, BG114753, BE612958, AV681825, AW957859, AU137383, BE742555, BE697596, AW975830, BF034198, AW957782, BG251258, BE896710, AW957937, AW813051, BE697644, BE545203, BF977953, AW271555, BG259991, BG116851, AW957783, BE697638, AV691847, AI629012, AA308190, BF056635, AI950251, BE505024, AW271945, AU152320, BF375062, BF907621, BF907553, AU152599, BF907535, AI768899, AU144646, AI300924, BE697633, AI697765, AU150350, AU154067, BF907622, BE707571, BE697643, AI560075, AW014744, AA313132, AA703214, AU151943, AI564193, AI581089, BF381320, BE588805, AL135260, AU152784, AW338106, AA505767, AI418227, BE502116, AI640554, BE350804, BE697786, BF907545, AU155659, AI767988, AI625041, AI561182, AI140164, AI811500, AI858461, BF907552, AI887429, BE539679, AU144327, AW014169, AI909320, AU152389, AI382104, AA603342, AA888065, BE178682, AI765224, BF335705, BF907547, BF907537, AI968568, AU151554, AI357213, BF381312, AI289596, N42240, AI478340, BF096000, BE746411, A211092, BE178045, AW793648, AI244198, BF381062, BF753598, AW969744, AA455615, BF448461, BE177876, AA487115, N46990,

					<p>BF888089, AW194045, BF096003, BE931932, BF827921, BF815300, N32797, AA962704, AI689568, N48596, BF888124, BE931945, BE698779, H47565, AA393648, H99441, BF095205, BG120965, BF155461, AA353956, BE769239, AA486796, BE154200, AW630831, AA483596, BE933937, BF850138, BF827920, AV689379, AV692744, AA581961, AA535109, AI433400, Z42725, AA809529, AA211037, AA516054, BE932470, AU132558, AI928495, AA400833, AI758527, AW169835, AI971805, AI911938, AW957741, AI359161, AI032196, BF570808, AV693249, BE769243, H29506, BG059191, AI750915, BF094204, AV694821, BE769228, AW439951, AV696813, AW663541, AW117274, Z28830, BF381330, AI597681, AI750267, AA211203, AA249644, AI985281, Z25186, BE769236, BE004505, AI873243, AA709206, BF381305, BE173112, N47278, BF746406, H47566, BE172276, AW793703, AW021744, Z38882, AW883841, AW389552, W31762, AI104012, BF094202, AI905441, AW608385, AI470623, BF888121, AI453000, D58165, AI493165, BF063673, AI498683, AW362831, BE173356, AA622090, AW796902, AW130303, AA182761, AA552706, AA091451, BF877002, BF821006, AW603024, AI739109, AA182641, AW389580, AA837350, AV736363, AA576356, AA638984, T48739, BE932758, BE708178, BF888140, AI873826, BF114930, D19877, AW818994, AU129440, AK001625, AB020657, AK001824, AF161553, AK001273, AK023123, AK023020, AL137640, AJ012449, AK000931, AL078644, AB050414, AR018872, and AW235591.</p>
HODDO66	625	102720 7	1 - 1299	15 - 1313	<p>AW149836, AV724255, BE161927, BE795004, AW364505, AW138803, AU137429, BE799764, BE300282, AU125467, BE932164, BE786074, BE882532, AI217476, BE294947, AA070029, BE931550, AA191715, BE931549, AI655979, BG254021, BG117060, F07456, BE255593, BF351838, AL039921, BE886862, BE884446, BE547035, BE889046, BF035323, AI000877, R19564, AU124210, BF345149, F07982, W27954, AA853040, BF345081, BF982641, BE747949, BE612626, BE171987, AV749615, BF893610, AA853928, N86091, BE815909, BE836228, BE836225, BE901389, BE880310, BG026309, BE836276, BG259859, BF057135, AI609376, BE836341, BE711453, BE770291, BF573646, BE770388, BE784042, AW135540, AV692147, BE161946, BE770253, BF768674, AA095377, BG253296, BG106774, BG150448, BF374787, T04998, BE836332, BF735397, BF735624, AA089440, BE619425, BE836369, T11680, BE815921, AW403333, AW388404, BE301162, BF768681, BF735716, BE162677, BE709428, AA603744, AI983648, N56195, AA324509, AA099123, BE160000, BF105891, BE547010, N48490, AA366706, BF760099, N94256, BF677619, N83721, BE301157, AB000717, L43509, J05571, and X68836.</p>
HVVAT45	626	102726 9	1 - 3773	15 - 3787	<p>AL521709, AU139605, AU139786, AU133158, AV715927, BE535428, AV707854, BE882531, AI433464, BE302408, BE220521, AW612477, BG122886, BF593222, AI186034, AA480343, AI082537, AW189879, BE002782, BF675617, BE002805, AU143997, AI745058, AI379721, AA001791, AW118778, AU149758, AA001870, AI190938, AA017469, AI810133, AI580107, BF061454, AA017470, N75111, AW573126, BG119005, AA496528, AI361074, AU155671,</p>

					<p>AI421480, AI797293, AI039242, AA676895, AA035158, AA813771, AI380129, AA577557, AI625511, BE930108, AU118630, AA496455, AA035159, AA034943, H09058, D52456, R60578, AI199837, H71368, H49158, AA526250, H71321, AI801119, AW051381, AW193626, AI469299, Z44640, AU158178, AL537252, AI375966, H03188, BE768068, AW027677, BE769432, H03987, AL521710, AA189113, BF112089, F07896, AA884440, AI247826, BE768175, R44612, AI370691, R41912, AW338918, BF908980, AA300907, AI682819, F05975, BF911500, AA089462, AU134848, AU127032, AI755046, H08357, C00830, BE798325, AW137909, H49079, BF594512, AI219213, AI902677, AW837163, BF335290, AA629557, D20866, BF797664, BF758104, T84855, N92073, H01516, BE777866, BE537307, AA384103, AA034942, AA386034, AI758883, AW820302, AI032167, BF677164, BE018848, AA136525, BF239017, BF993167, AA218780, BE073835, AW958177, BE878986, AA376539, BF210087, AL121716, AL117443, AK023709, AF180371, AF102265, AK023432, AB032081, AK023685, AK001365, AL162056, AL050080, AB029040, AK027030, AK021676, AL049699, U52077, AL050341, AC003977, AC006249, AL080315, AL139188, AF104257, AC004385, AF314060, Z84470, AF205406, and AF126403.</p>
HVCAG18	627	102748 4	1 - 608	15 - 622	<p>BE393771, AI491895, AI972158, BF035171, AI683354, AI634702, AW003747, BE394824, BE208245, BE674284, AW166518, BE394667, AA477548, AI204509, AA433859, BF223547, AA075256, AI459028, AA704365, AW170346, AA719455, BE898899, AI683449, AA293804, AA722190, AA394184, BF061263, AA010660, AI972816, AV705972, AA534766, BE382381, AI800229, AW054677, AA075515, AA291675, AW517880, AI269897, AA025902, AW105621, AA496562, AI131418, AA477665, AA293236, AA972922, AA688358, AA405299, AA603048, AA555137, AI206090, AA452084, AA432228, AI352215, AA327201, AA563656, AA078977, AA451904, AA628896, AI128837, AA010659, AW510341, AI683140, AA025750, AI859472, AW102571, AA477050, AW189037, BF111273, AI680769, AW512687, AI298658, AW193875, AA496431, H50634, AA936665, W67669, BF446212, AA292518, BG150710, AA428593, F02471, AW749395, AA385354, BF877343, W67668, BF876769, AI955963, AI932457, AA477179, BF750539, H50635, AI609687, BF883518, AA335459, BF877245, AA287213, AI540421, AI087799, AA507349, AA284324, AW189604, AW772554, AA506658, AA476938, BE811673, BE694854, AA290981, AA969241, AI685657, AA385556, BE811545, BE811507, AA406009, AW088425, AA477670, AA402537, BE001672, BE746798, AA477553, BE931271, AW779288, BF184297, AA477157, AA4290980, F02231, AW467094, AA079060, AA402896, AW207468, AA401329, T28367, AI521428, BE515017, BE001677, BE001587, AA908550, AA403038, AA411029, AA411533, AI963250, BE816517, AI130774, AA402928, AW754236, AA480517, AW995301, AA479786, AA908619, H53726, AX014329, AI8924, AL031663, and AF314058.</p>
HPTXK72	628	102748 6	1 - 990	15 - 1004	<p>BE393771, AI491895, AI972158, BF035171, AI683354, AI634702, AW003747, BE394824, BE208245, BE674284, BE394667, AW166518, AA477548, AI204509, AA433859, BF223547,</p>

AA075256, AI459028, AA293804, AA704365, AW170346, AA719455, BE898899, AI683449, AA722190, BF061263, AI972816, AV705972, AA394184, AI800229, AW054677, AA075515, AA010660, AA534766, AA291675, BE382381, AA293236, AW517880, AW105621, AI131418, AA972922, AI269897, AA496562, AA477665, AA688358, AA025902, AA555137, AI206090, AA405299, AI352215, AA563656, AA451904, AA452084, AA432228, AA603048, AA628896, AV704660, AI128837, AA327201, AA477050, AA078977, AW189037, AW510341, AI683140, AI859472, AV705443, AW102571, AV703972, AA010659, AV725088, BF111273, AI680769, AW512687, AI298658, AV703342, AW193875, AV703456, AV702222, AA496431, AV658362, H50634, AA025750, W67669, BF446212, AV707155, AA936665, AV653845, AV729242, AV709932, AV727238, AA292518, AA385354, BF877343, AA428593, AV707770, AV704481, AV725047, AI525556, AV706394, AW749395, BF750539, AV703137, AI609687, AV705447, F02471, W67668, AV701953, BF876769, AV703284, BG150710, AV707556, AV698270, BF877245, AA335459, AV725991, AA477179, AV701914, AV709222, AV727272, AV745940, H50635, AV703030, AI932457, AV702486, AI955963, AV706075, AV728652, AV703913, AA287213, AV706425, AV707658, AV701614, AV705525, AV727204, AV651075, AV711901, BF883518, AV728523, AV701471, AV726699, AV645540, AV703783, AV702315, AI087799, AV686417, AV661838, AV706655, AV701320, AV753729, AV727314, AV725074, AV694871, AV728471, AV725090, AV702343, AV703213, AV728309, AV753856, AA284324, AV728185, AV738340, AV727126, AV706910, AV683285, AV694787, AV658332, AV727984, AW772554, AV727562, AV729017, AV729366, AV708069, AA506658, AV702696, AV726532, AV705189, AA476938, AV725154, AV702163, AV704307, AV706964, AV706925, AV697350, AV704834, AV687342, AV702322, AV709886, AV754068, AV727047, AV726743, AV727929, AV727468, AV701844, AV707828, AA507349, AV759156, AV728436, AV746010, AV705684, AV707648, AV707238, AV725380, AV701643, AV702868, AV727954, AV704897, AV709040, AV703591, AV704879, AV729376, AV703989, AV645836, BE811673, AV701730, AV725920, AV729220, AV703940, AV708320, AV645575, AV729255, AV702787, AV725099, AV703980, BE694854, AV705234, AV728715, AV656240, AV704955, AV709935, AV703417, AV728874, AV702721, AV726761, AI540421, AV685688, AV687176, AW189604, AV709733, AV652156, AV704973, AV703542, AV726248, AV707822, AV701728, AV727052, AV701985, AV701875, AV760359, AV726783, AV691891, AX014329, AI8924, AI031663, AF314058, AX020190, AR088705, AR079804, AR017907, AR091393, AR038855, II3349, AX026824, I18895, AX008555, AX009712, X81969, AX035980, A91965, AR062871, A25909, A85395, A85476, I46681, I66485, I66487, AX028305, AX035462, AX009487, AJ244004, AJ244005, AR062872, AJ244007, AR062873, AX001322, AX026823, AJ244003, AX006816, D78345, Y16359, AX006826, AX001082, A20702, A20700, AX032758, A43189, A43188,				
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					<p>AX006825, AX006822, A98420, A98423, A98432, A98436, A98417, A98427, AX021518, AR093392, AR037157, I63120, AR038762, AR093385, A98767, AR008429, A93963, A93964, AX042372, A86792, Y09813, X83865, A84772, I15717, AR054109, I15718, A84776, A84773, A84775, A84774, AX006821, AR067731, I08396, AR067732, A58522, A91750, I08395, M28262, A93016, AX047063, E03627, AX011024, A18053, I48927, A60212, A60209, A60210, A60211, I62368, I13521, AX003207, I52048, I84553, I84554, AR096545, U94592, I00682, A02712, A77094, A77095, AR080470, AR077142, A35536, A35537, A81878, AX033488, A11623, A11624, E00609, AX033489, AR069650, AX033490, A95051, I06859, AR095492, A02135, A04663, A02136, A04664, A18050, AX012337, AR073846, A23334, A75888, I70384, AX033474, AX033486, A58524, AX033487, A64973, AX006823, A60111, A23633, E13740, AR007512, A11178, E01007, Z32836, A10361, I49890, A58523, A11245, AR043601, AR070327, I03331, A02710, E12615, AX018504, AR035193, D50010, E14304, A07700, AX027811, AX027809, A13392, A13393, AR031488, A27396, AX027813, AX030369, AX030368, AR069374, AR027100, I44531, I28266, AR069375, A90655, AX042377, AR083151, AX027812, AX027810, AR091518, AX027816, AR072535, AX042375, AX027817, AX027818, AX027814, I21869, A92133, AX042373, AX032992, AF149828, I44516, AX032993, A70040, E16678, A82653, E16636, A95117, AR074365, A24783, AR085082, AR085089, AR085091, A24782, AR095490, AR095491, AR085079, AR085083, I01995, AR038066, I25027, AR069426, I08051, I26929, I44515, I26928, I26930, I26927, I60241, I60242, I05558, A20699, E00696, E00697, AX001330, E03813, AX003206, AR093384, I66482, AR009151, I66483, I66484, AX004550, AX036660, AX036661, I66498, I66497, I66496, AR027099, I66486, AX023553, AX003194, AX023548, AR072540, AR093383, AR051652, AX027636, AR031566, A22738, AA079060, AA480517, AA908550, AA290980, AA290981, AA401329, AA402537, AA402928, AA402896, AA403038, AA411533, AA411029, AA479786, AA477157, AA477553, AA477670, AA969241, F02231, AI521428, AI685657, AI963250, AW088425, and AW467094.</p>
HHSGW78	629	102840 5	1 - 495	15 - 509	<p>AI040010, AI300866, AA682391, BF109228, N29566, BG231154, AI129244, AV741891, AA761892, AI085911, AA708606, AI347228, AW016268, AI125595, W46147, AI086773, AI090828, AA846190, W49679, BF109594, AI126838, W48662, AA149081, AI343789, AI601178, AA782846, AW965184, AW965196, AA428595, AI129248, AA740563, AA554542, AI338248, W80680, AI025221, AA677392, AI190899, W94099, AI001139, AA683514, BF436689, AI589088, AI244460, N95164, AA907886, AI077390, AA063581, AA526582, H98767, AA729878, AI032677, W49848, AI144405, AA494307, N35698, AA041457, BG026470, AA916799, AA613024, BE792146, AI269011, AA902613, AW025516, AI131435, C21125, AA889491, T60457, AA845442, BE789615, BG170408, AI248145, AW874239, AA055102, AW024412, AI189372, BE312637, AA512949, AI565196, AW016193, AI918116, W84416, BF448735, BF124923, BE769708, AW496831, AA700243, N80608, BE883556,</p>



					<p>AW194137, AA036650, BF215467, AV707190, W51872, AA034442, AV712984, BF680831, BF966226, N23951, AV699381, BE884771, BF691260, D57508, BG169173, AA932609, AV706771, BF222631, AA149080, AA740599, F23371, BE569008, N23488, AI243882, F33146, AI273036, BF061273, W80936, AW337192, AV710168, AA203621, F36926, BF219184, AA203303, AA975956, AA034441, N45090, AW022006, AI143160, H45672, BF061231, AI204692, AA468438, AA258924, AV711891, AA716545, AV716456, AI768434, AA483466, N31852, AA041487, AI418736, BF245211, AA041509, BF697691, AA432231, BF245775, AA922529, AA781780, W49678, BF358515, BF222274, AI936125, AI378250, AV701971, AV654379, AV712755, H45714, AC020977, AF020351, AX017280, X63215, and AF124785.</p>
HDTLR06	630	102919 1	1 - 2646	15 - 2660	<p>BE880150, AV714766, AL037752, BG249115, BE869900, BF970612, AV716522, BF981298, BF670705, AI807631, AW959676, AA479519, BF699048, BF240530, BF028284, BG112682, BF103751, AI433776, AI085610, BG105696, BF221532, AA479522, BF815176, AV700038, AI979032, AA149078, BF979245, AA868892, BE064495, BF576484, BE779262, AA085763, BE549144, AI888699, AW368466, BF211956, BG231196, AI274793, AI302738, AI685714, BF248036, AW025865, AW510744, AA868627, AW631467, BF757093, BG056635, AA131509, AI566328, BF887743, AA411937, AA099324, AW008987, AA128370, AA101862, AI034130, AA505082, AW474020, AW512897, AA131278, AW801804, BF763378, AI420344, AI707791, AI289004, AA827737, AI307391, AA603153, AI278872, AI088381, AA149079, AW816611, AW768937, AI911177, AI085852, H03698, AI027366, AA993335, AI003565, AI088373, AA194832, AA883469, BE968701, AW025874, N34932, AA411978, H84364, AA709465, AI026993, AW380728, BE004195, AA075705, AA687743, AA708422, AA600355, BF802610, AA505085, AI086107, AA458999, AI038736, H04299, AA069442, AW959683, AI287268, AA346920, AA459218, BF801763, AA558206, D79676, H03699, AA280229, R56481, BE694195, AA468345, AI581421, AA468915, BF801764, AA032256, AI242820, AA743438, R62743, AI690209, AA373919, AI000242, AA102069, H03200, AA411789, R63384, AI537127, AI934536, AA099859, AA993326, AA285277, AA411777, Z21244, R78175, AA508503, X85612, BE165918, AI695567, N43994, AI557451, R81943, H03997, R49722, AA075695, AA468992, H01646, R63438, H03016, AA371111, AA826547, BF735612, BE670784, AI866416, BE005572, AI088382, AA371158, R77810, BE931779, AA296627, R38119, AA298094, T49048, Z21319, AA033629, R38033, BF515977, AA069469, Z21218, T49049, AA092678, AW472736, R26423, Z21382, AA468153, AA090508, AA743841, BE005593, BF804374, BF919743, AW889236, H84365, Z21243, AW611875, AI914841, AI687818, AW858525, AW877209, AL134524, AW968355, AL119324, AW971745, AL119457, AI432644, AW858526, AW861944, AI623302, AX017997, AX017856, AX030435, Y17793, AR066494, AR080280, AJ251859, AF019249, AB026436, AX030436, AX046357, AJ279014, AR060234, AR071207, AL133049, AL133074, AL133053, AL133076, AF064854,</p>

HPAMG11	631	102948 4	1 - 1315	15 - 1329	AL122101, AR054110, A81671, AL133068, and AR069079. BE747185, BF027619, BF036217, BE898878, BE879303, BF345805, BE876986, BE745122, BE742819, BE875019, AL536934, BF570276, BE875960, BF984370, BE892090, AW081666, AI832707, BE745781, AV694521, BE315072, AW250016, AW954141, AW150364, BE207659, AW957004, AU148920, AI799718, AW249413, AU148744, AA426216, AI745234, AI951260, AA448227, AI920826, BE732315, AA434128, AW150130, AI954474, AA303085, AI955179, BF314962, AI002573, AW316690, BE898908, BF032262, AW768741, AW129675, AW190199, AI673189, AI905251, W45131, AI633410, AW733124, BF961569, AI028405, AI676122, R55621, BF033609, AW275855, AW014416, AW193391, AA888952, AA434063, AI538224, AA088197, AA535520, AW150121, W79830, BE907265, AA894775, AI684012, R43171, AW008535, BF095212, Z39285, R71396, AI014759, W67259, BF195242, AA679644, AV709538, AA448370, BF969186, AI824709, AI032483, AU157353, AA399042, H92688, W48653, T56564, AA303084, W67405, AI598209, F10851, AA543080, AI613024, H78325, W45090, AA812293, AI927856, H78326, BE085568, AV726722, R70181, BF989514, BE093115, AI970979, BF569413, AI732820, BF033608, AV727483, AI827432, BF877350, BE275903, BE879983, BF822159, AI732766, AA385233, T62619, AW611752, T87085, AI800683, AA456124, BF091176, AA430681, AA397699, AA425986, BE799738, F31113, AA291586, AA421299, S82470, and AF211969.
HSDJR27	632	103087 0	1 - 1783	15 - 1797	AW005629, BG250786, AW167264, AW514301, BF972677, AI978666, BE042945, BG030936, AI653352, AW245141, AW473620, AW952847, AW381277, AW084624, BE613692, BG231579, AI868951, AW381279, BE697890, AI114471, AW008764, AW418543, BE697876, AW513047, AI148331, AA456251, AW316794, AW149142, AW381280, AI598035, AI143936, AA211485, AI278540, AA579574, AI566968, AA425564, AW150911, AU144458, AI051837, AI018216, AI826388, AA454639, AW510391, AI307182, AI289622, AI078750, AW515371, AI091088, AA568661, AA604128, AA890006, AV718198, AW008757, AA776519, AI025370, AA988529, AV724654, BE855631, AA425359, AV724468, AA129320, AA565823, AA767424, AI188982, T62521, AW139907, AI948620, AA031319, AW952485, H49462, H97012, AW381263, AW627376, AA132361, AV702030, AI369641, AA910241, AI670733, BE703259, AI283644, BE221734, BF197353, AA748475, AA132360, BE841619, BG015801, AI684010, H49463, AI279767, BF433941, AA807987, T87152, AA129383, T03321, AV653714, AI809410, AW192634, AI380647, AA341266, H84690, AA827171, AW295873, AI382754, H75949, F22114, AA932513, BE677881, R02581, T31504, Z42997, Z39713, BE904223, N59136, T89930, AI379281, AW979047, AW383774, F02474, T23701, AA830719, AW606262, AW381575, T87057, BF841083, AW383777, AW383735, BF837368, AA322268, AI634197, AI254734, T16695, BF841582, BF841536, AW884300, AW383750, BF082720, AI380926, N77574, AI473328, AW383744, AW197718, BF842440, AA576177, R35638, F13769, BG015805, R27657, BE938517, AW372004, AW014878, AA777966,

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HOCPL33	633	103087 1	1 - 2171	15 - 2185	AC005870, AC002482, AL031133, AC007237, AL117338, AC007385, and AC005053. BF725593, BF344577, AA291892, AI093722, N35995, N21491, AA493711, T57002, AA650030, F09835, AW953246, AA573152, AA541730, T80464, D31115, BG059601, AA350448, Z25379, AI393498, R39024, R42314, AA865667, N44238, AI088818, BG054755, F08817, AI970892, AW139210, AW338984, AW449202, AI418641, AA729145, T66221, AI910796, T93953, T94411, BF507381, AA350447, BE163296, AW081029, AI208336, AI624663, R16370, AI242755, BF437813, AW905871, T93903, AI906851, F11146, AA507190, AI696468, AV699193, BE245956, AA648118, AL514793, AL513961, AL514731, AL515341, AL513971, F13451, AL514717, AI589450, AI745505, AW016789, AC005551, AI277264, AL121656, AR089157, AC018514, AF243527, AC008018, AC006115, AL355815, AP001605, AL133240, AC006989, AL031846, AC010412, AE000665, U72620, AL022238, AP001688, AC084392, AL078630, AC005544, AC003689, AC010311, AC005736, AP000252, AP001699, AC007655, AL034549, AC005274, AC016656, AC026431, AL137060, AC069019, AC011484, AF003626, AC004900, AP000134, AP000212, AC010267, AC004659, Z84474, AC003670, Z98049, AP001707, AF050157, AL031228, Z98946, AC013458, AC005082, AC006075, AC008738, AL031390, AC006336, AC010582, AC005944, AL356321, AL355485, AC020947, AC010723, AC004846, AC005725, AP001711, AC007021, AL035638, AL163279, AC021868, AL035668, AL137145, AC009756, AC025167, AL132795, AB003151, AP001705, AL133353, AF314058, AC079603, AC005859, AP001412, AC004685, AL359272, AC019209, AC007907, AL109800, AC004903, AC004161, AC007981, AC005259, AC008394, AC006994, AC007115, AC008887, AL033378, AC011198, AF227510, AL162414, AP001714, AC003060, AC007993, AL133238, AL121890, AC008102, AL139114, AP001726, AC005181, AL109925, AF289667, AL034351, AP000152, AC012309, AL139327, AL136218, AL031224, AC008482, AC015540, AC005742, AP001724, AC006530, AC005370, AL118520, U85198, AC012351, AC017100, AC005914, AL031663, AP000402, AL157903, AF111102, AC006972, AL162455, AC005682, AF053356, AC016620, AC006944, AC027689, AL117186, AC007325, AC005839, AC016831, AF001905, AL109928, AC006004, AC006333, Z84487, AF152363, AC007263, AC016898, AP002532, AC009976, AL050348, AC007748, AL117350, AL035466, AC008747, AL137839, AC004911, AC004808, AL391995, AC017037, AL138725, AC010141, AC007966, AC064878, AL158040, AC021642, AP001717, AC084429, AF125314, AC026881, AP002530, AC005817, AC012526, AC005290, AL008720, AC019173, AC005522, AC011453, AC007226, AL050341, AP000272, AP001691, AC008626, AL008723, AC006151, AL139353, AC007510, AL031054, AC010874, AP001727, AL163207, AL163206, AC007656, AC009169, AL133215, AL163248, AE000664, AC011470, AJ010688, AL021127, AL355532, AC083871, AL031121, AP001728, AC004815, AL132777, AC002553, AL121852, AL049874, AL160231, AL139008, and AL159980.
HPCQN80	634	103096	1 - 2743	15 - 2757	AU125281, AI341671, AI205964, AU125275, AI911769, BG252896, AI378791, AI031802,

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HODEI22	635	103107 6	1 - 1927	15 - 1941	BE612881, AV681739, N36809, AW967677, AI819225, AI689062, AI741346, AI872193, AA282915, AW102898, AW971573, AW629970, AI950344, AW967671, AI683338, AI858509, BF589902, AI950087, AW173586, AA283144, AW150329, AW205862, AI763273, AI890387, AI653832, N70208, AI762688, AA988777, AI821380, AA488892, AA908741, AI633006, AA044209, AA293273, AI356394, AW072629, AI308119, AA251874, AI373032, AA969759, AI539642, AI564269, W01059, AW513996, AA972584, AA642789, AI251473, AW512843, AW505512, AW103813, BF886630, AW513601, AW467940, AA251875, BF993945, R97278, BF819530, AA488964, AI821346, AW276997, BF195374, AW959581, N46026, N50134, H60052, H83488, AA300207, T91721, N75628, N35320, BF196759, AI745010, AI961530, H59397, N22388, R97040, AA908598, AI002839, AA847038, AA856975, AA382351,

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HODFZ16	636	103108 5	1 - 890	15 - 904	AU142662, AU122434, BF313104, AW296716, BE082138, C17206, AA825641, H65334, AA807120, BF948913, BF954989, BF962641, BF935143, AW274870, H65533, BG014436, AL038842, AW513789, AL038841, AA991899, AW858064, AI921765, H29930, AW502949, AW150209, AW080073, AI123933, AI123922, AU144023, AU144129, BF871412, AI902170, AC007956, L40400, AB033168, AL133492, AL163303, AC012384, AL109825, AC020728, AL117186, Z82253, AC005323, AC005412, AC079603, AC008745, AC004408, AC025226, AL163246, AC010201, Z70272, and AC005619.
HWGAE28	637	103131 6	1 - 2498	15 - 2512	AL532884, AL536010, AU119158, AL532831, AU137754, BE745500, AW007660, BE275049, AU136309, BG252544, BG030152, BF969187, BE784443, BE794719, BF968474, BE783084, BE781638, BE253809, BE899520, BE778167, BE256714, BF526973, BE546562, BG259152, BE778011, AW614628, BE891232, BE731724, BE747256, BE782053, BE784115, BG250699, BE745177, BE902036, BE777819, AU137978, AI066745, BE782043, BF980330, AA573220, AW662390, AU127382, BE301322, BG120424, BG024926, AW239481, AU127941, AI091268, BE779025, AW150072, BE256841, BG056400, BE904709, BE870649, BE258984, BF573556, BF696389, AW780335, BF973777, BE256053, BE781356, BE221362, AW247473, BE782729, BE258556, BG259237, BF131364, BE259358, BF691584, BE254655, BF667102, AW247336, BF977152, AW770805, BF969017, AV689827, BE958151, BF701767, BF698305, BG109265, AU150320, BE388447, BE546560, BF571551, AI568796, BF029871, BF977578, AU127305, BE250863, AI718794, AI690695, BE253419, BE257509, AW073196, AI624284, BE254374, AU126969, AI859836, BF698313, AW196988, BF031160, BE781097, BE254505,

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HOFNZ21	638	103132 8	1 - 444	15 - 458	
HOOKH25	639	103132	1 - 3762	15 - 3776	<p>AL517769, AL520920, AL520921, AL517770, AL531792, AU125829, AL531791, AU124376,</p>

9	<p> BE731292, AI017298, BE735006, AU120387, BE794602, BF526537, BE792461, BE903671, BE734713, AW024419, BE903610, AA642219, BE796002, BE796372, BE735320, BE734379, BE732715, BE797824, BE732947, BF970105, BE900289, BE561530, BE903567, BE268521, BE742191, BF981332, BE563105, BF984390, AI951753, BE908268, BF685476, BF791975, BE900263, BF688757, BE261101, BE798409, BF037301, BF984474, BE382409, BF793112, BE900706, BE731097, BE746965, BG119696, BG259694, BE262642, BF304404, BE733603, BE383309, BF795449, BE269556, AW001459, BF795384, BE902627, BF983898, AW148873, BG115216, BE740413, AW474138, BF038593, BE872963, BE781436, BE279030, BF344773, BE312285, BE884226, AW003662, AI973118, BE391163, AI824151, BG260928, BG118916, BE887714, BF344389, BE792577, BE383980, BF027045, BE785431, BE902509, AA773468, BE730074, BG170961, BE253728, BE294996, AW732949, AV724100, BF526468, BF344801, BE895051, BE540861, BF689314, AI955325, BF791828, BF308536, BE792513, BE382735, BG107335, BE390023, BE735055, BE613356, AI565761, BE620532, BE560537, BG107222, BE262144, BE391391, BE410548, BF317364, BE869382, BG024898, BF979786, BF316894, BE042688, AI686932, BE312581, BE410762, AW162688, BE889545, AW732580, BE259418, BE280838, AW239365, BE786848, BE730179, AI859074, BG165376, BE745146, BF973581, BE892306, BE278353, BE903782, BE537822, BE894698, BE408288, AI827029, BE731591, BE264718, BE278656, BG171566, BE729155, BE382475, AW088539, BE410055, BE280641, BE561790, BE389305, BE264296, BE207138, BE781234, BE268384, AW182681, BE273006, BF683749, BE612624, BE881070, AW936952, AW372205, AW245781, BE889017, AW732121, BE312928, BF315182, BE879144, BE259589, BE892544, AA872184, AW162793, BE293217, BE391848, BE795868, BE879296, BE387240, BE313689, BE514299, BE881942, AW662171, BE262670, H95242, AW245685, BE789540, BE391917, AI205206, AA769657, BF689380, BG116714, AW960376, BE263047, BE734033, AA621968, BE903443, AW733017, BF304602, BE207893, BE907060, AW474983, BE313043, BE785738, AW364257, BE894614, BF724479, BE279176, BE900672, BE280965, AA306149, BE390588, BE537388, AA604299, BG253168, AI922686, AI991237, BF980089, BE298109, BE261481, BF571545, W38423, AA847164, BE388920, BE410280, BF308038, AA748445, AA838044, AA583014, BE543342, AI392827, W60953, BE261601, BF686413, BE206533, BG164099, AI689260, BF984648, BE540468, BE206647, AV717882, BE259789, BE278815, BE620928, AI379636, AL045207, AA614311, AI375377, AI452850, AF100752, M30143, U11760, Z14044, AL137377, AF122048, AF313485, AF313486, AC005259, AC004472, Z70768, AF122047, AR038863, T49430, T39608, T39610, T40697, T49431, T91991, T92075, R00570, R00674, R12889, R16317, R17166, R17919, R18012, R21041, R34226, R35552, R41283, R41394, R43263, R41283, R41394, R43263, R69121, R69240, H10384, H10590, H15663, H17419, H17418, H60450, H60497, H83595, N31466, N44274, N51210, N72512, W17051, W40215, W44751, W45437, W52648, W58732, W67761, W67741, W72214, W74143, W77958, W80752, </p>
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HDTIL75	640	103143 5	1 - 1473	15 - 1487	AL525996, AV683597, BG169538, AV725955, AV764341, BE884035, AW953224, BE336842, AI935589, AI952759, BF030731, AI912341, BF034469, BF334207, AV726875, AW361333, AA760708, AI740664, BF876675, AW854201, AA126440, BF364260, AA126547, AW904025, AV690108, BF364253, AA374854, AA569874, AI359973, BE208051, BE781651, BF998663, AA128145, BF355778, BF734000, BE565675, Z45193, AW182538, AA424133, AI433942, AA095328, T33320, BF736750, AA505114, AI370560, AA216128, BE892492, BF365395, BG014127, AW339451, BF223694, AA069580, AA069607, AA425032, T16316, BE350697, AA722003, AA126980, AA659722, AI491840, AA282590, AA262021, W74044, W74284, Z40918, AW955087, AW135564, BF925321, AV685598, Z82195, AK000031, AF220185, AK027029, AF168713, and AK025354.
HPRSB55	641	103145 1	1 - 2118	15 - 2132	BE740238, BE396502, BG121152, BG166305, AA725894, BE856956, BE560549, AV725381, BE788322, AI151174, AA725843, AI796778, AA631182, AI684470, AI758791, AA307128, AW517402, AW950147, AW402321, AW873141, AI131094, AW082953, AA282254, BF836375, AW629203, BE042724, BE042802, AA456796, AW593026, AI810099, AI554493, AI589210, AI681923, AA476490, AA811682, AI034159, AI005154, AA429074, BE514170,

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HPDPY36	642	103160 6	1 - 1125	15 - 1139	AI286191, AI380986, AA833766, AV685121, AI684915, AW445111, AI078315, AW409850, AI074944, AW083620, AI333829, AW410643, AA862712, AV692765, AV691674, AW630406, R28360, BF054960, BG034066, BF220235, AI951634, AA535484, AW083851, AI298559, BE222680, BF002293, AA456610, AI742128, AV714945, N79442, AU154935, AA293551, AW613671, AA745871, AA457113, BE300685, AI865039, AI421011, AI436231, AI472002, AI080216, AA989354, AA973505, AA629630, AA863374, AA953282, AI421211, Z38938, BE858784, BG033474, AI743335, AA507434, AL135633, T68735, AL521527, AA247823, AA422055, BG036806, W80729, AA337554, BE280767, BE256109, BE277425, BE277346, BE409965, BE744735, AU124270, AL521528, AW960789, AA293550, BE885112, W78830, D19872, AA011488, BG167001, BE612990, R51146, R58147, BE410071, W07812, AW242007, BF307924, BF032930, AK001789, AK001235, and AF125182.
HETFI47	643	103192 2	1 - 1767	15 - 1781	AA910946, BE795828, AU141193, BE901965, BE797702, BE733565, BE902040, BE736900, BE901113, BE304538, BE799665, BE733825, BE733342, AW370766, AA773478, BE539912, BE280632, BE901394, BE744972, AI147187, AW612924, AW245820, AW084163, AA827996, BG171354, BG004649, BE019577, AW958909, AI654448, AI627563, AI445660, BE265415, AI925490, BE266374, BE301538, AW955959, AW370781, BE044092, AI261225, BE267493, AA444056, AU158829, AI860488, AW780063, AL521838, AW673660, BE393046, AI339998, AA662124, AA826649, AA916472, AW206617, AI082028, BE019726, AW293553, AA588398, AA781244, AA100487, AL526812, AA444074, AW732928, BG170833, AA662089, BE796246, BF984794, AW363526, AW169569, BE539623, AI619549, BE267273, AL522637, AI272817, AA099576, AA626735, AI476556, AA563618, BE880158, AW005594, BE407731, AI669785, AI694033, BF108798, AW370776, BF033906, BE280141, AA100486, AA130971, W31417, AA838073, BF817639, BE927305, AA826578, AI869910, AI694055, AW731651, AW128848, BE814008, AI285208, BF726872, AL516968, BE732800, AI813824, AI700255, AA548132, AV748948, AW374533, BF761078, BF761129, AA983604, BE410292, AW245780, AI688313, BG029699, BE172513, AA102239, AV746613, AW374457, AA337602, BE276474, BF808956, BE300492, AV746614, BF002398, W04536, AA774600, BE396111, BG012408, AA384358, BE387107, AV746731, R00451, BE386995, W92449, AA336823, W92448, AI401368, AW087441, AI269310, C06239, AA130960, AI991651,

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HMAMI21	644	103198 8	1 - 2234	15 - 2248	<p>AW954799, BE271837, AV721846, BE745592, BF725507, AA683501, BF001820, BE645976, AA493369, AI478433, AW272169, AW043832, AW629090, AW970817, AI632954, BF883899, AW341082, AI037911, N73299, AW183622, BG149229, AI554533, N80298, AW079953, AA010682, AW237610, AI470926, AW419057, AA195080, AI627833, AA195179, AA563670, AW590266, AI168477, N64510, AW771214, AW340086, AI767341,</p>

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HCOQQ85	645	103247 5	1 - 796	15 - 810	<p>AF123263, X72378, AR032065, and U79457.</p> <p>AA527275, BF739761, BF671674, AI021993, BE788289, AA708317, BF339011, BF698698, AI056032, AA177007, BG109574, AI084881, AA719512, AI992038, AI149297, BE250762, W72756, AI885493, AA025332, AI347596, AI27378, AW960136, AI150597, BE537772, AW055350, BF669977, AI309300, AA807990, BF025746, AI299357, BF026935, BG179200, BF752877, F36957, AI167238, AI144250, AI817728, W37211, AA587383, AI301868, AI150853, AI146973, AI128060, AA757709, N36768, W93604, AA977154, AI870720, AA143022, AA652196, AA569637, AW016423, AA908239, N20465, AI168024, BE300559, AW392903, AW249089, W61069, W25494, AI073715, AA206039, AI129656, T78482, AA827356, AI301287, AA886216, AI079179, AA885836, AA962819, AW248654, AA888169, AW316772, AW050956, AW273669, AI189120, W77955, AW780042, AI312121, AA581114, BG248514, AI422787, N78693, BF102734, AI340959, H88181, AA321706, AI188708, AA150913, AA024487, AA813766, AA873718, BF697972, AW009296, N25492, BE302884, AI352608, AA714470, AW009290, AA548148, F34753, AA358375, AA586392, AW272941, AI541308, AI905953, AI435287, AW392845, BF677448, N31676, BG114546, BF752843, AA376127, AW272937, BF763217, AA937389, W25732, AI471041, W33168, W02662, W61070, AI905948, AI905949, AI185169, N93627, BF680643, AW873384, AA494189, AA373543, AW176052, BF764929, N94001, AA367465, AI194089, BF853542, AA070489, AW176041, AA928311, R63598, BE045202, BF853680, BF853544, AI085401, AA373625, AA366558, BF854499, W33142, AI192334, BF913336, AA953271, AA366974, AA364489, AA092278, AI203772, AA070661, AI905950, N22648, AI718915, N53822, AA634161, BF664967, BG005761, W33143, F18245, AA728797, AI024909, AA026881, AI001941, BE175249, AA779647, C03405, AA366085, AI074923, AI094487, AI766664, BE774269, AA635566, AA635574, AA535812, N45928, AA976918, BF853551, AW975850, C00369, AI862619, AI862613, AA578205, AA548598, X99920, AR065359, AX038714, AB001567, and A52250.</p> <p>BE276086, BE799426, BE869452, BF026338, BF317399, AW025382, BF794897, BG114881, BE730504, BE889582, BG170450, BE729071, AW273311, BE383027, BE388081, BE546242, BE389443, BE872888, BE728904, BF382090, BE393294, AW516676, AI498244, BF724969, AI598225, AA873418, F31242, AA600326, BE045808, AW148628, AA642725, AI000969, AA506332, AI751726, BE301180, BE543750, AI479038, AI048061, AA232924, BE378196, AA558785, AL048062, AA961507, AA340658, AI400895, W95885, AA662509, BF033521, AA548895, BF975491, F36168, AA082145, AV750413, AI423491, AA994430, BF430965, AI824366, AW177763, AI816593, BF904786, F36493, AW603812, BF526524, BF902060, BF931340, AA491695, BG232062, AA101158, AW082900, AI828034, AW001969, AI422611, BE838159, AW969607, AL134524, AI309801, AW968148, AL045328, BF958854, AW969848, AL037436, AL038838, AL047012, AL044125, AL038983, AL037435, AW969653, AL038532,</p>
HE2DQ62	646	103365 3	1 - 1566	15 - 1580	

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HEBAE89	647	1034320	1 - 571	15 - 585	<p>E12615, AX018504, AR035193, A92133, E14304, A07700, AX027811, AX027809, A13392, I62368, AR031488, I13521, I52048, A27396, AX027813, AR069374, AR027100, I49890, I44531, I28266, AR069375, AX042377, AR083151, AX027812, AX027810, AR091518, AX027816, AR072535, AX027817, AX027818, AX027814, AR085082, AR085089, AR085091, I21869, AX042373, A91965, I44516, A70040, AR085079, E16678, AR085083, E16636, AR074365, A93016, AR093392, AJ230902, AJ244003, E17098, AX006816, A20700, A98420, A98423, A98432, A98436, A98417, A98427, A86792, A24783, A24782, A35537, A02136, A04664, A95117, A60212, A60209, A60210, A60211, AR095490, AX006823, A58524, A58523, D13316, I01995, AB025273, I25027, AR069426, I26929, I44515, I26928, I26930, I26927, I08051, A93923, AX011024, A64973, AF149828, AJ231009, I08395, A11624, AX035980, A10361, AJ230867, AJ230951, I19525, AR070327, I60241, I60242, AR093383, AR091537, A70872, AJ276257, AR063812, I15718, AR069417, AB043473, Y14219, A22738, I05845, S60422, A20699, E00696, A13393, E00697, AX030369, AX030368, AX042375, and AX001330.</p> <p>BF347572, AW958277, BG236334, AW405615, AI204097, BF805442, AL042964, BG117750, AL527844, R92423, AV684866, T77218, AV742001, T81565, AV684904, AV745080, AV724520, AV742667, AV743601, AV718844, D51250, AV720464, D80227, AV742720, D80219, AV744934, AV741012, AV722801, R24348, D80253, AV720731, BF203696, D59275, AV740535, AV744773, AV701017, AV700229, AV701043, AV737584, AV718858, AV743654, AV699447, AV701248, AV744768, AV723927, AV718692, AV701166, D80240, D80210, AI363890, AV701332, AV701443, AL045960, D80043, AV701154, AV718681, AV701125, AV721784, AV741888, AV719783, AV718489, AV701261, AV701012, AV701118, D51423, AV701428, AV745724, AV743008, D80193, D80391, AV700889, AW973447, AV745392, AV701431, AV699479, AV701163, AV720034, AV699927, AV745723, C14227, AV720607, AV744771, D59619, AV745369, AV745488, AV723097, H78758, T11051, AV744770, BE304914, AV720812, D80949, AV745366, AV746385, BE305201, D59927, AV745621, AV745831, T11417, AV738934, D80168, AV719000, AV746335, AV699746, D80196, AV745490, AV708420, AV701121, AV746162, W68036, R28182, AV708422, D59787, BF930610, AV699550, AL043422, AV701004, AV701422, AW949645, D80366, AI557751, AV720203, AV745583, AV700495, D80045, AL039150, AL038821, AL039085, AL043445, C14014, AV719913, AV701149, D80134, AV701335, AW063533, AV701151, AV701055, F13647, AV701145, AV746300, T23947, AV745411, D81026, AV701357, D50995, AW965158, D80038, AV699682, AA883867, AW975618, AV742671, T83811, AL043423, AW064110, AV719324, BE294171, AV699480, AV699669, AL043441, BE018654, D58283, C75259, BF842890, AL039156, AV745388, D81030, AV719822, AV745902, D80195, AV718770, T24119, D81111, D51799, D80188, T03269, AW959570, D59889, AV718800, BF090381, AV720211, AV745920, AV745849, AV718707,</p>
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HKA0B40	657	103713 1	1 - 446	15 - 460	

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HPDVE37	658	103730 3	1 - 1599	15 - 1613	<p>AB033884, AB047248, AB048964, AB048953, and AI475127.</p> <p>AL517808, AA875996, BG163459, BG254693, BE856373, AI356625, AI697273, AW964280, BE620690, BG032350, AI955203, BE739574, BG180539, BG118987, AI804501, AW072362, AW131876, BF439994, AW517706, BG163494, AW589307, AW474312, AV713744, AW189479, AI758808, AI671058, AI859527, AI571565, AL516527, BE044262, AI979123, AI358930, BE785436, AA903662, BE876057, AV757490, BF447142, AW769283, AI702005, BG179480, AI589797, BE855665, BE874132, BF815665, AW470124, AI608874, AW262906, BE542347, AI419415, AV733087, AW085499, AW264203, AV716319, BF594195, BG166560, AV717480, AW043903, AI589155, BG236166, BE855543, AI625339, BE349609, AW071433, AI811579, AI827883, AI038312, AA923546, BE787494, AI027551, AA946567, AI218474, AI262847, AA516112, AI250238, AI367751, AI587647, AI445709, AW190946, AI095563, AA506164, AU149505, AW449748, AW675364, AA461100, AI273385, BF342328, AI886029, AA594304, AW363586, AI765475, AA644088, BE831584, AI249095, AA954399, BE870728, BG164966, AI359314, AI362797, AU148487, AU155770, AA054986, N79134, BE698726, AW022921, AI302865, BE788584, AI347884, AI344505, AI339769, AI159818, AI191669, W68451, AI301086, BE787374, AI346633, AW864340, AW468843, AA461415, BG249206, AV733977, BF130637, AA917866, AI431993, AI346628, AA295256, AI139442, AI474061, AI263002, AI554488, AI718444, AA054987, BF350409, H97738, N28435, D20107, H50749, AA405503, N26792, N47562, R06023, AW768467, AI866248, W32011, H71749, AI335841, AI473654, BE244914, BE871289, BE870161, AI244612, AI274576, BE879080, H04403, H66230, AA872308, T60170, N62365, AV705024, AV738340, BE873741, AV701643, AV707151, R33767, AV727052, H72312, W31602, AV727574, AV703542, BF094332, AV708203, AI146867, AV745940, AV703980, AV702696, AV728282, AV709886, AV727954, AV701751, AV703266, AV649112, AV707794, AV727001, AV702222, AV727314, AV709932, AV706910, AV727238, AV703213, AA055296, AV704879, AV706425, AV725991, AV706223, H04378, AV725154, AV727583, AV653897, AV706851, AV728652, AV762632, AV702673, AW510462, AV701879, AV729473, AV707783, AV701774, AV707528, AV725380, AV701914, AV702149, AV648623, AV702354, BE881308, AV706104, AV728425, AV709494, AV760693, AV709356, AV715252, AV706925, AV761002, AV707238, AV733867, AV704954, AV705416, AV702671, AV707589, AV727126, AV733901, AV704660, AV703460, AV703591, AV711979, AV703417, AV713329, AV733247, AV733222, AV711705, AV758219, AV702851, AV762691, AV764039, AV716583, AV705550, AV713025, AV758054, AV726653, AV733212, AV702498, AV729886, X87212, AC011088, U79415, I45551, AF060171, D90404, AX020190, AX047064, AX035462, AR038855, AX047063, AX008555, I44681, AR088705, AR062871, AX026824, AR017907, AR070327, AR091393, AR079804, AX032758, X81969, A25909, AR062872, AX026823, A85395, AR062873, A85476, AX009487, A20702, I18895, A20700,</p>
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HTLES74	659	103743 8	1 - 1599	15 - 1613	<p>AI684972, BF970837, AW967038, AU159484, AU158471, AA057647, AW500380, AW249504, AW151743, AI424975, AI432337, BF871652, AW084843, AW304447, AW967331, AU148765, AI394403, AI191900, BF871649, N25336, AA133457, BF382784, AW505227, BF871644, AI914725, BF955103, AA921789, AI783706, AA057623, AW469146, AA916229, BE699490, AA729783, BF955104, BF847243, AA458940, AI336273, N31450, T07500, BF744969, BE254288, BF350930, BF744962, AA010526, BE041426, AW873536, BF350929, BE256648, BF874285, AA317055, BF847242, BG104716, BF993827, AW592168, BF876061, BF869452, BF744885, BF869451, AA010440, AA133456, BF874364, F37928, T28450, BF377173, AA768679, BF350954, AW250269, BF350936, AI905327, AU125009,</p>

HCORG51	660	103748 0	1 - 1018	15 - 1032	<p>AW452112, BF350941, BF814972, BF809514, BF811020, W88917, BF349935, BF766992, AF159851, and M73077.</p> <p>AU119606, AA203703, BG108259, BF727003, AV723401, AV727538, AL037022, BG121673, BE906082, AV701409, BG104741, BF207530, BE88688, BG165717, BE865783, BF969520, AV693876, BG121030, AV695442, BG105351, BE906390, AV718109, BE256706, BE905199, BE783245, AV761845, BF213371, BG163570, BF695449, BF666653, BE787708, AV759701, BE257704, BF033701, BF978876, BF212445, BE440070, AW960900, AV696961, AV759933, BF940791, BF698481, BG107691, BF696419, BF032594, AV714540, BG032718, AV713922, BF208342, BF207835, BF698120, BF132136, BE787507, BG171285, BF666631, BF184845, BE564620, BF028256, BG114143, BE566319, BF665952, BF207537, BE787664, BF701660, BE712409, BE254967, BF212224, BE566364, BF668687, BF103822, BE568143, BF794294, BF028300, BF668049, BE535212, BF210210, BE56454, BE566504, BF669748, BF028425, BF132549, BG034568, BE973714, BF211605, BF698186, BF699327, BF129935, AV692292, BF790799, BF668313, BF207538, BF219102, BG112005, BF574192, AV695884, BE568054, BE865575, BF028080, BF669285, BE866162, BE564560, BF696430, BE564680, BE566998, BF697745, BE880760, BE537699, BF701632, BF031304, BE568246, BE567433, AA641037, BF666925, BF245842, BF699104, BE568260, BF698609, AA207275, BF028127, BE617095, BF687636, BE866547, BF029228, BF211122, BE565384, BF028659, BF666787, BF215598, BF106334, BF207508, BF662895, BE568342, BE883681, BE958125, BF209000, BF238831, BE712313, BE865640, BF207801, BG113857, BF701484, BE564339, BF666262, BF207800, BF212545, BG170382, BE379878, BE565403, BF208434, BE738903, BE960617, BF130043, BF701314, BE566626, BF696841, BE567001, BF676340, AW956412, BF207487, AW951764, BF028632, BF679913, BE565908, BE866051, AI878922, BE565841, BF028356, BG116048, BF698480, BG115367, BE568736, AV748606, AA777569, BF028533, BE538069, BF029283, AV711633, W74771, BF132067, BF028876, BF698815, BF184604, BE568628, BE866343, AV709365, BF540906, BF668983, BF670020, BF029074, AI313152, AI184824, BE568240, BE866165, BF669919, BF241599, BF211931, AW327264, BF132599, BE958387, BE566452, BF668437, BE958229, BE866608, BE568941, BE567143, AW405776, BE675095, BF208507, AW575329, BF698858, BF670050, BE567222, BE712302, BF106197, BF571150, BE567991, AI204563, AI971724, BE865853, AA143061, AW089921, BF790681, BE566909, BF213189, BE865841, BG117885, AW886459, AI879014, BF126080, BE712495, BE565381, BE866555, BF700114, BF240137, AI057602, BE881428, BF028741, BE674885, AA187900, BF028038, AI041813, N36393, AI146925, BE568390, AA314926, BE866414, BF699470, AI362989, AV714019, AV753726, AK024823, AC005000, AL031983, AC006137, X99585, AL031133, AF067824, AF067825, U89439, AF067826, AC006349, AC005193, L76416, Z98050, D16928, M84340, A74359, X95225, R09273, T78786, R06047, R13312, R26309, R34095, R69222, R69651, R69665, R87091, H54579, H61278, N27572, N32723, N42456, N44268, N45944,</p>
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HPAMM72	661	103834 4	1 - 1192	15 - 1206		<p>AL523860, AL523859, AV703581, BF313932, AV704094, BE744272, AI245953, BF311083, AI580046, BF978105, BF342774, BG029876, AA548201, AA587134, BE384153, AA502785, AA505568, BF686716, AI754704, BF568187, AA526489, BF206736, AI360872, AW170479, BF125063, AI342198, AI871437, BF980574, AI620169, AA587222, AA533190, AA252926, AI819060, AI809628, AL535314, BE266496, AA477334, AA905992, AA548308, W52644, R53008, AA479767, AA740293, BE389423, BE889935, AA88511, BE895691, T69762, AA953866, W79885, F24264, AI186365, AI126858, BF972617, AI684622, W56615, BG163811, AI936781, F34518, M77988, T70747, BF195437, H83737, BE840210, AW865827, AI857330, BF591148, AA542905, AI421596, AI984543, BF879344, AI354365, C01187, BF939223, BG057040, H54505, AV742672, AI524233, N56117, W74271, AA054732, AI005431, AI937336, W05721, AA054739, AA559928, W25472, AA304771, R71745, BF910578, AW607220, AA879033, AA886134, BE696657, BF807135, AW605383, AA345944, BE840003, BE696656, BF910040, BE836322, W56645, A W768898, T50922, BE727589, T50763, BE770117, BF354989, BF858481, BF858460, R28237, AA338136, BF858399, BF858463, AI005445, A W800087, BF858469, BF858479, A W118596, AA568270, R70173, BE811961, BF896188, H54417, R29460, W25064, AA507070, BF799694, AI459675, BF796413, T85523, BF743421, BF002186, Y07604, AF086133, AF288690, AF153451, X97899, AL359622, AK000432, I48979, AL121656, AL390167, I48978, A93016, AK026592, A08916, AF116639, AL137527, AL389978, Y11587, AF116602, AX046603, AF118070, S78214, AL157431, AF116646, A08913, AJ242859, AF130075, AL442082, AB019565, AF130104, AL117585, L31397, AF090900, AF078844, AK024538, AR079032, AF125949, AK026865, AK000618, AK026504, S68736, A08910, AF118064, A08909, AL133640, AK026651, AL359596, AL117460, AL080127, AF130059, AL049938, AB048953, AK000212, AF219137, AL050393, AL442072, AX026824, AX026823, A58524, A58523, AF116691, I89947, AK025958, AB049758, I89931, AL122093, AF113013, L31396, A12297, A08912, AR087170, AL110196, AL359601, AL110221, AL117457, AL133016, AF113691, X84990, AF116644, AF119871, AF242189, AL356278, AF090896, AL080060, AK025391, AK025484, AF104032, AX005848, AX005804, AK025491, AF130105, AF119878, AK027204, AF017152, AF090934, AF119894, AF225424, AF116631, AL133606, AF090943, AF218014, AK026608, AF090901, AL133113, AL389982, AL050277, AL162002, AC005992, AK027113, AL162083, AK026086, AK000445, AF183393, AL122098, AF113676, AF138861, AL050138, U35846,</p>

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HKZAT03	662	103837 8	1 - 1603	15 - 1617	AL1792181, BF568681, BE619353, BG120390, BF342481, AI401034, BF568988, BE789895, BF732947, AI767382, AW006326, AI355164, BF338223, BE045924, AI285633, BF591104, AI867456, AI887701, BE785287, BF594321, AI521603, BF568589, AI281806, BF594332, AI569158, AW469163, AI638344, AI201771, AI733579, BE042478, AW193431, AW083891, BE502258, BF674772, AI672802, AI952107, AI916027, AW263735, AI924871, AI655323, AI677970, BF941149, AI970251, AI347252, AI564712, AW089701, AI539116, AI420801, AI916004, BE20014, AI672004, AW290972, AI247014, AI680300, BF438612, AW629833, BF196599, AI281880, AA602320, BE857125, AI571084, AI560534, AI920823, AW194360, AA558959, AI655096, AW089651, AW593434, AA583786, BF877451, AI886225, AA838252, AA583313, AI910048, BF036691, BF875572, BF588571, AI9623356, BE939501, AW378134, AA653417, BF839820, BF898669, BF809758, BF834908, AW748237, AA102207, BF884829, AI950970, AW272114, AW087229, BF880457, AV688379, AV693534, AV693525, BE001970, BF827682, AV689604, AV692641, BF829604, AI081643, BE939633, AW177785, T29204, BE078144, BE618452, BF664598, BF878235, M63193, U62317, M58602, and S72487.
HDQMA85	663	103871 7	1 - 342	15 - 356	BF978123, AU126584, AU128622, BF978806, AA495935, AA418553, AV711446, AA193327, AV710174, BE566462, BE892207, BE569126, AV650111, BF208049, AV655570, BF571579, AV658440, BE566177, BE380088, BF207671, BE364660, AV659224, AW953008, BF126703, BF681495, AV706080, AA136159, BE568578, AA365223, AV717432, BF037095, AV706188, BF969419, BF027969, BF678845, BE294140, BE819432, AI557092, BE315019, BF542097, AV716266, BF104989, BF207827, BE565709, BF131739, BG167404, BE894162, BE565661, AV731171, AA150864, AV730529, BE568671, BF691161, BF674527, AV705301, BE569149, AI525586, AV702978, AA421976, AA314967, AW607134, AV707255, BE566620, BF572994, AV723383, N79705, H24621, BF675294, BE568676, BF031287, BG168685, AV710104, H49331, BF207548, W01244, BF031139, BF573093, BE618995, AW804379, BF132984, BF030537, BE971095, BF028510, BG167791, AV705177, BE005667, BE568441, H83043,

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HVCCQ82	664	103871 8	1 - 960	15 - 974	<p>AV711446, AI810249, BF969419, AI146338, AI553922, AA629296, AI819787, AI220117, AV706188, AI961682, AV659224, AI857837, AA418533, BG167404, BG167791, BF035310, AI888793, BF038148, AA929054, BF037095, BF339479, AI718455, BG179179, AV731171, AV702978, BE564660, BF032642, AI749637, BE380088, AI814264, AW166965, BE894162, BE064379, BF104989, AU128622, BE892207, BF978806, BF207671, BF028516, AV710725, BF207827, AW439768, BF031139, BF027969, BF976854, BE568671, AI560688, AV705301, BF572994, AA928210, AI304964, AV655570, BE819432, BF027792, BG168907, AV650111, BE867757, BF691161, BE005667, AV658440, BE005665, AV710174, BE866538, BF675491, AA418380, BE005609, BE315019, AW571549, AV717432, BE005612, BE974177, AI400738, AV723383, BF037132, AV706080, BF031287, BE565661, BE568676, BE568525, AA887452, BF571579, AV707255, AV716266, BF542097, BG168685, AA493733, BE566620, AW471079, BF675211, AA991294, AA421976, AI089943, AA629674, AA193327, BF028510, BF207548, BE565709, BF594181, BF674527, AW950043, AV700927, AI218371, BE618995, AA629649, AA194110, BE926908, BE926907, BF573793, BF132984, BG180562, BE926888, BF196688, BE926886, AI198508, AA126514, BE176759, AV705177, BE176757, AI073726, BE568441,</p>

					<p>AI168758, AV707733, AV706506, AV707657, BF197070, BE176763, BF678845, BF031968, AA629656, AI338921, BE566177, BE176741, AI674938, BE926885, BF126703, BF573093, AU150878, BG030727, BE565064, BE176754, BE176762, AA437280, AW950042, AI085786, BE176755, AA633132, BF030537, AI342447, BE926884, AW384129, AA652531, AI433152, AI281295, AI087072, AI281153, AA578595, AV725700, AI148621, BE569126, BF245521, BE926895, AI368007, BF573748, AW069054, BE294140, AI620350, N51899, BF540919, BE565440, AI620364, AI557092, AA994396, BE176760, N54787, AI525586, AU126584, AA991209, AI280197, AA136159, AI346309, AI338121, AW953008, AA573976, BF675294, AA804572, BF215610, AA495935, AI167365, AW802465, AI340135, AI084449, BE569149, AI080691, AI267984, BE005748, BF681495, AW819657, N31499, BE005739, AA935468, BF083036, AA495936, AA948663, AA150864, BF208049, AI568933, BF978123, AW148701, N48996, AI467868, AA313140, BE568578, N75712, BE865993, N48254, BF248339, N62757, N79705, T27850, AW802461, BE160096, BE566462, AA632823, AA150692, BF027825, AA954788, AI383720, BE866404, AI926052, BF208468, BE564539, AI915737, BE047685, AV735909, BE971265, BF209509, AA524864, AA314967, BF571313, AA708346, AA927952, AW607134, BF027744, BF131021, BF350811, AW015498, AW802458, AV730529, AW899998, AA194837, J03746, AC007528, U46498, U71213, AB000884, D16947, AF092926, U71211, U71212, U46497, U71210, T71319, T71465, T87001, T91011, R09523, R09636, T84587, T86061, T95664, T97634, T97635, R01852, R01853, R37035, H24584, H24621, H28556, H28570, R99952, R99953, H49331, H53334, H59379, H60037, H66283, H66837, H66880, H67714, H82824, H83043, N45718, N58003, N58434, N68575, N74240, N78024, N99964, W01244, N90387, AA120994, AA126672, AA127034, AA136337, AA136422, AA483118, AA557776, AA602799, AA937149, C00783, AA629202, AI247247, AI418720, AI185358, AI250750, AI536893, AI831510, and AW293505.</p>
HTGRP54	665	103891 5	1 - 515	15 - 529	AW379160, BE179734, BF753109, BF919364, BF590555, AR086625, and AL080156.
HBODF41	666	103901 7	1 - 4077	15 - 4091	<p>BE693712, BF726185, BF941211, AI609957, BF434424, AI133086, BE743297, AI818455, AI963505, BG035390, AI283400, BF000643, AI807136, AI540580, BE710218, AI923919, AW511536, AW961955, AI673369, BE709764, BE299414, BE938907, BE297587, BF941386, BF083301, AW949326, AA936302, AL119560, AW028717, BE092064, AA838701, AW192115, AW297210, AW467440, W77767, AI246894, AW389733, BF083304, BE764961, AI570849, N92501, BF882462, AI168120, AA262479, AW367902, BE815293, N34800, BE932159, AW085775, AA195510, H97700, AW368180, BF854061, BF882455, AW368217, AI768309, BF822787, BF516377, BE392838, AA417905, BG005722, AW372530, AI334431, AI400483, BF847440, AI580089, BE744768, AW368048, AW368218, AW368174, AW368042, AA131826, BF447574, AW368025, AW368163, BE714741, AW368040, AW368044, AW368047, AW368168, AW368170, AW368212, AW368215, BF349645, AW368045,</p>

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HR0DW53	667	103906 8	1 - 2522	15 - 2536	<p>BG109975, AU119642, AW967929, AW195340, AW444826, AW976269, BF433231, BF447675, AU158960, AA947277, AA722891, AW009448, BF055991, AI420841, AA256747, AW377666, AA731773, BE503026, BG055294, AI565025, AI927332, AW389598, AI336337, AI494131, AA808216, AA947279, BE222247, AA825545, AW452410, AI651452, AW292860, AW377657, AI867450, AI216219, AI243363, AA812208, AI573209, BF108712, AW367969, AA908226, AW367976, AI458531, AW389617, W93316, AW079969, AW002549, AI467887, AA749144, N24875, AA256877, AA262505, AA766428, AA811313, R83301, AA778771, BF111381, BF542145, AW965704, AA682799, AW183953, BE047426, AW243205, H58733, AA931058, AI246223, H69591, BG002169, AA973454, R83395, AA419509, H69785, N36294, AA299701, AI803225, AA299702, T03865, AW471034, H58344, H75668, H59592, AA812777, BE710950, T77893, AA411001, AI825279, BF759989, AA354797, H65620, BE710953, AA677816, H69023, AI886081, AW296622, AA255868, AA255471, AA648958, BE705831, W93427, AW183272, AI203101, AA815060, H65619, H67272, AI218105, AW811839, H59593, Z38443, F05460, BF909126, AW798987, BF909992, BF909906, BF909207, BF909130, BF909585, AI634666, BF909216, BF909121, BF909974, BF957214, BF909575, BE788762, BE181731, BF909165, BE930330, AI208005, AK000399, AL161757,</p>

HPAMC60	668	103929 0	1 - 2977	15 - 2991	and AK023885. AL535865, AL516512, AL519227, AU141054, AL516511, AU126040, BF967988, AU137295, AU142956, AW963033, BE788012, BE889992, BG035178, BG027055, AU117071, BG258905, BG261070, BE061938, BG258982, AV702215, AW274900, BE217870, AV759936, AW959659, BE540470, AV696955, BF686672, BE538326, BE549733, BF999549, BE549916, AU146938, AV717743, AU160190, AU264123, AA775397, AA902465, AW408479, BF381555, AV753562, AA845453, AU567675, W19918, AU371771, AV714671, BF237716, AV705505, BE707637, AU143994, BF033922, H98061, AU129280, AU436219, AU131605, AU337194, AU750293, BE252519, BG025834, AU808533, AU165080, BE813720, AA314539, AU762629, BF243023, BF059565, AA824288, AV751773, AV763024, BF476697, BE002625, BE466846, AW339504, BE870697, AW172809, BE002808, BF306735, AU028509, N78438, AU165100, AW438902, AA702977, AA934039, AA772387, AU305175, AU969645, W31697, AU079414, AU140124, W32150, W00679, AU298102, AU298271, BF244067, BF746273, AU533788, N78878, AU18253, W56864, BE669492, AU468435, AU227473, AU150886, AU082614, AA88217, AU079958, N90337, AA316647, BF967264, AU083708, R19848, AW075617, N99923, N62347, N90737, BF216915, AU081307, N33210, AW513369, W39443, AU051901, N22977, AU128862, BE252097, AU526658, BE960874, AU366857, BF195491, AU968452, AU093068, AA488414, AA625429, W03474, AU767826, BF886626, N62714, AA844432, AU1510771, AU339129, AA977275, AA917896, W77845, AU18089, AA808772, R23594, AA488552, W05350, W06854, AA558790, AU710092, AU590102, BF431526, W15351, AU560407, AA863422, BE671096, BF665098, N79109, AU086695, AV749542, AU246615, AV759463, N99916, W72121, AA226732, AA767460, AU220982, W06941, AU382792, AA844288, AU157116, AU155983, T59679, AU278098, N40268, AA456488, H09416, AU863558, AU300271, R71572, BF031544, N31015, R78812, H95034, AW205368, H78637, AA164685, N41923, H09357, AA854381, AA700449, H96313, R26150, BE925306, H06438, AW901748, AU669872, R77046, N91264, AA725325, R81582, H93997, AU090659, R79310, BE167655, R34212, AU186457, AU470782, AU591349, R79674, T85462, T99588, R81331, AU985095, N55580, AA369712, BF738882, AA009877, Z41909, T82168, T71401, AA708919, T83949, T50395, AU518427, T30640, N32393, T52657, AU191207, AU382962, N90421, R76884, AU164538, AA670114, T71267, AU572199, W32002, BF242166, AA876634, BE180993, AU1719049, R30987, W25298, AU917594, BG011640, AA724702, AF121856, U83194, AK021456, T52656, T59815, R08686, T85364, T85403, R34329, R45949, R45949, R79863, H06174, H78585, N63268, N69012, N77082, W25292, AA131531, AA150778, AA738250, AA948725, C01143, AA094683, AA678747, U48336, AU042230, Z38204, AU678470, AW137248, and AW198143.
HLMHM83	669	103949 1	1 - 1224	15 - 1238	BE794192, AU986229, AU290806, AW084755, AU341433, AU246657, AU347940, AA543086, AU222741, AU190369, AU697075, AU697244, AA429265, AA916401, AU283197, AA428446,



AI281218, AI739306, AI361787, AW518035, AI826039, AA458609, AI394039, AI673664, AW856032, AA503721, AI797426, AW079412, AW605986, AI539006, BE062963, AW843294, BE062977, AI720845, AA908630, BF754736, BE150211, BF935260, AA909821, AI470687, AV745644, AV746216, D45723, AW006302, BF913616, AI866798, AW827289, AI915295, BE964497, AL119791, BG031664, AI567582, AV689723, AV684075, AI560679, AW058341, AV758455, AW193850, BF339322, AI859464, BE962210, AW834325, BE883591, AW806761, AW162194, BF814527, BF828245, BE544111, BE964614, BE963040, AI471361, AI345010, AW022636, AI266558, BF752999, AI784233, BF921291, AI139104, AW999906, BE968721, BF925370, BE964617, AA580663, AI434731, AA761557, BE965724, AI648699, BG261282, AI471429, AI950895, BG105895, AI091468, BE138658, AI929108, AW163834, AI345608, AI345688, AI623941, BF726183, AI690813, AW083168, AV716075, AW058233, BE888689, BF911528, AI932949, BF793462, AW084056, AI345471, AI445620, AI036652, BF531010, BE874813, AI923989, AI581033, AW194014, AI114703, AI589428, BG113851, BF990285, AI868163, BG032036, BE896769, AV742698, AI118781, AI887775, AV738730, AI690472, BE393359, AV712606, AV681927, N81195, AW059828, AI922901, BE789376, AI537837, AW020419, AI758812, AI273899, AW161202, AI866461, BF753056, AV702021, AI358213, AV756633, AV756182, H89138, AL047344, AI609365, AI564716, AI494201, BF699668, BG253536, AA493923, AL513697, AL513773, AI624529, AI540674, BG180475, BF814447, AI333104, BE540578, BG113299, AL046466, BF342070, AI340519, AI285439, AI521799, AA908294, BF822127, AI340603, BG180046, AW082532, AI499986, AI918408, AW055252, AI537677, AI872910, AW051088, BF814521, AI225000, AI671642, BF672397, BF811802, AI567940, BE965355, AI267185, AW078689, AV733824, AI560227, AW151136, AI918554, AI344931, AI561356, AW263569, AL036705, AI500523, AV750565, BG023758, BF764538, BE909150, AI799540, AI633062, AA420722, AI249257, AI560545, AI284517, AI933992, AA665612, BE011880, BE047952, AI289791, BG105812, AI859644, AI435999, AI538885, W48671, AI625589, BF812936, AW024793, AI050666, AI925402, BG104683, AI758569, AW088605, AI583032, AL039086, BF924884, N22276, AI433611, BE155168, BE974031, AV736808, AI889147, AW025279, AI582932, AW020095, AI050881, AI500061, AI491710, AI699020, BE890685, AW130949, AI521005, BE907440, BE891869, BG001293, AI345745, AI621341, AA641818, AK026923, U33271, S63521, AF116698, AL050277, AF116650, AL133565, AK026571, AF271350, I48978, X82434, AB033884, AL355701, U35846, AL031346, AF130055, AL137478, AL117583, AF039138, AF039137, AL035458, X06146, AL162003, AK026649, S77771, AL389935, AF111112, AK027103, X00861, AB019565, I89947, AI8777, AL133104, AK000655, AL117626, AK024974, AF017790, AF026124, AR038854, AL162083, AF218005, AR059958, A08913, AB007812, M92439, AK026600, AF169154, AL133619, A57389, AF100931, U67958, AK026590, A08912, AB047609, AL122121, A08910, AY004290, AK024524, I89931, A08909, AL389983,					
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HOUDK70	670	103953 8	1 - 1597	15 - 1611	AL526552, AL529569, BE300326, BF343474, AW173245, BE907221, BF526703, BG117100, BG118993, BE731203, BE536398, BE563511, BF307443, AW748479, N36307, BE789360, BE297472, BE737167, N31152, AL039679, AI911101, BE884203, BE734924, AA447600, AA447576, AW894544, AA448099, H49186, AI940110, AI752657, H05170, BF764050, BF750545, H58569, AA448075, AA157923, T08301, N42794, AW607899, Z19259, T10191, Z45841, F12064, BE247381, BF088793, T66334, H54538, N40492, AA376319, W20031, BE244355, AW238940, BF921416, AW843056, AA345246, AV689784, BG168733, BE247386, N26944, AW604060, AW843060, BF303785, BF885765, AA345389, AA789333, AA339151, AI492232, W30828, AV660518, BE909958, BF935407, BE870969, AA099601, BF969573, BF917262, AW366426, BF757047, AW607378, and AF091083.
HCVBI10	671	103957 9	1 - 1702	15 - 1716	AW962356, BE882875, AA446378, AI912345, BF686233, AA903395, AA305361, AI262837, R51262, AA325695, BF756552, AA502360, BF436343, AA341377, AI383206, H95839, BE926588, AK025718, AF078165, AF205888, AF205889, AF017757, and A98521.

HMEFK29	672	103965 2	1 - 1038	15 - 1052	BF855430, BF856260, AI097372, W76417, AW351543, W72789, AI497996, AI201242, AI239673, BE504020, AI125890, AW384017, W94549, AW204883, AA063004, W81183, AI359730, AI698103, W92622, AW665053, AA075526, BE671677, T58604, AV705531, BE780808, BE503247, BE505011, AW955391, BF743760, AW050613, AW135973, BE908855, BF056323, BE551179, AI871753, BE549759, AA075583, AC002398, and AL137752.
HAOSK79	673	103966 3	1 - 756	15 - 770	BG032338, AL525292, BF796384, BF692056, BE745991, AV716068, AI569781, BG029520, AI052735, BE893878, BF797308, BE888132, BF979000, BG178102, AA781104, AI571797, BF976824, BG256579, BG104520, BE544942, BE865636, BG029828, BF0335701, BE261824, AV760223, AV757406, BE564641, BG117456, BG030351, BE899066, BF103712, AI598181, BF687712, BF984230, BF184810, AI870484, BG032825, BF695460, AW957275, AW874587, AW515957, BE866479, AI073718, AA203476, AW575580, AA781338, BE895698, AA706787, AA436999, BF571031, BG030598, BE894780, BF185164, AA081272, AA007621, AI187853, AA075073, AA007646, AA705320, N93408, AA039876, BF516104, AI037954, AI970768, AI192508, AA861023, AI140876, AI698655, AA081273, AA405947, AW272792, BF694018, BG034515, AA041520, AA812948, AA442827, N93319, AI362866, AA075235, AA476952, AW261964, AA074947, BE904476, N53693, AI302602, AA992412, BF685238, AA405385, AA033949, AA075247, R83062, AL525252, AA430032, AA477063, N55467, AA555210, BF036251, H64056, AA772482, AA287547, AA430241, BE184054, AV758639, BF983295, AI445235, AA764752, AA287855, AA780128, H58693, H94652, AA960936, AA314652, H52308, BF218627, AW023686, AW750100, H90483, AW082280, AA627719, H77520, H77519, H60872, R70335, AA055312, AA055311, AA404964, AV734433, AI338258, H60873, H58303, H67960, AA644227, AI185954, H67633, H66113, AA693507, N73057, H64006, AA405133, H66067, H90427, BF979261, N51912, AA286786, AI933075, AI811894, H82677, AA806062, AA287854, R93232, R93114, AA380236, H82417, H52544, BF965661, H67910, R83011, BF037529, AA352192, AA287672, AW750040, N23584, AI498735, BE391888, BG105162, AA383595, AA249470, H70200, C21248, AI910658, AW796237, AW957287, N76842, BE328455, AA033896, AW602820, AW404603, T25511, AW796097, AW796134, BE972716, BG032865, BG033115, AW796271, BE540031, AI346766, BF033757, AF095287, AI223953, AF075242, AF062649, AF200720, AF200719, AF095289, AF179298, AF095288, U73030, AF116538, AF071209, AF167561, AF167563, AF167564, AF167560, and AF167562.
HPDRV42	674	103968 9	1 - 1739	15 - 1753	AL533202, AL535156, AL517887, AL533596, AL519304, AL531833, AL513982, AL531770, BE799237, AL517032, AU117426, AL533161, BE797596, AU123247, AU141035, BG163895, BG109757, BE396435, AU126498, AL517886, AL045490, BE799456, AU123454, BF038993, BF984427, BE881609, BE905177, BG034215, BF793209, BE871282, BG122256, BE905819, BG168462, BE879496, BF340027, BG165885, BE745016, AV694660, BF968093, BG167333, BG121075, BF526083, BF526778, BF917367, BE269926, AW168896, BE158012, BE407984,

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HOPJD35	675	103970 3	1 - 2687	15 - 2701	

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HTFNP84	676	103974 8	1 - 1470	15 - 1484	AU131060, BG170335, BE874646, AW965920, BF103784, BF132717, AI916675, BE542516, BE545072, AU126699, BE925786, BE542794, AU153996, BG249086, AU128730, BF688040, BE871409, AU133302, BF695692, AA172248, AA279942, BE565526, AU118039, BE696974, BF754790, BF028759, BE865874, AA301103, BF978940, BE141444, BF669829, BE563965, BF185183, BF211791, BF216245, BE005656, BF758436, N85422, AA327978, AI540751, AU127595, BE080860, AK001323, AK023267, L11316, and AL137710.
HTHDT76	677	103987	1 - 1794	15 - 1808	BE547763, BF879014, AA150271, AA150373, AI148532, BF223784, AU135981, AI038383,

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HSYEC21	678	103989 1	1 - 4229	15 - 4243	AUI27302, AUI23126, AI337321, AW088492, AI984023, BG105936, AI989481, BG115461, Z99413, AV752874, BG164521, AI830368, AUI31231, BE046108, AW951238, AW593926, AL134557, BG259862, AW631373, BE328781, AW851082, AW029158, BE789679, AW961129, AA442913, BF793879, AW663665, AW022139, BF432072, AI434336, AI436090, AI809757, AV682735, AW768573, AW439527, BF083068, AI913448, AI440089, AI341304, AV718717, AI190267, AI147127, BG025485, AW613371, AI795941, AI765979, AI216333, AA578569, AI570253, AW235152, AA760815, AI056839, AW439931, AI215415, AA732638, AUI53007, AA927068, N29456, AW190061, AA041498, W95177, AA761960, D82513, AI358433, AA776029, BE326691, D82515, AI033177, AI752749, AA262804, AI204230, AW192067, H15877, AW083388, BF750393, BF217438, AA397563, AA026006, H14766, W94597, R51526, AI859270, BF223414, BF431093, AA806627, AV655427, AA781883, BG178000, H43399, H73767, T28485, AA731599, T79974, AI718564, R53656, AA134349, BE156349, D82467, AV657727, AV657350, AV657690, R11928, R53074, BE702241, W58753, AA025218, AA593057, R51525, H74151, BF114660, R15295, N41480, BE875554, H98205, AW954282, AW959453, AW182028, AI863791, AA134348, H47642, R93603, Z43506, H43344, AA041264, BE537020, H29807, H47947, AI370277, D82386, AW842224, AA300686, R02057, BF085644, F05667, AI695688, R25259, AA279606, R41222, AA934641, R14900, Z38623, R02056, T29666, W05800, AW892808, R93604, AW363232, AL039132, AI750184, AV736213, T29285, M86031, H98204, AI926218, AI470448, BE143058, BF541917, AA385114, N72769, AV686989, AW961122, BF818257, AI526144, BE698943, BG027822, AA828877, BF213906, AA096386, AV689120, AI865601, AI865462, BF085643, R53163, J04027, L14561, M95541, M95542, X59069, AK027053, X53456, AK024895, J03753, AF070606, S49852, AF287015, L08769, AF076783, L04739, I58000, AF216705, AC007314, M25824, and AW083471.
HKGCO25	679	104038	1 - 738	15 - 752	AUI23678, AUI18105, BG027584, AI207407, BF974367, BF973516, BG259718, AUI23965,

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680	HNOIN70	104038	1 - 2976	15 - 2990	AU119071, BF966048, BG166677, BG119979, AU128779, BE893615, AV681724, AU129282, AW950481, AV703640, AV704484, AI972815, BF000482, BF794196, BE889106, BE536036, BE537475, BF700163, AI954186, BE886104, AI693320, BG236249, BF675355, BF240902, AU151441, BE552164, BF029979, AW880628, BF594114, AW172716, BE326343, AI480116, AA772153, AI693385, BF688083, AW974556, AW512084, BE048759, AW965923, BE644644,

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HADFS31	681	104038 8	1 - 3839	15 - 3853	BG163477, BF970569, BG108453, BG054547, BG113286, AW854245, AI307808, BE073174, AW611910, BF056065, AL533547, BF672443, N41320, BG171055, AW954910, AW959075, BE644771, AI703292, BE872388, AI469372, AI566092, AA602303, AA393055, BF030410, AI445560, AA131931, AI951484, AI972988, AW085169, AW341588, W01556, AI494498, AW387794, AI911847, AW451929, AI141578, AA131930, N39095, AW073488, AI560000,



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HJBDC89	682	104056 9	1 - 1435	15 - 1449	AW953446, BE792468, AI051989, AU128893, BF220324, BE549353, AW956873, AW009905, AV751585, BE251103, BF973368, AI310510, AA703004, AV751891, BE973862, BF033333, BF197271, AA910262, BE266993, AW411419, AA890707, AI339233, AA887323, AU151115, AA306175, AI200470, AI033882, BF035058, AA641095, AA652477, AA679821, AA593627, BE883034, AA082991, AW675300, AL157587, AA083148, R52335, BF087892, BF197102, T64853, R52334, BF674548, F09900, T08457, AI719735, AA356384, F12274, BE874556, BF444928, R94927, AA580037, T72595, AA652284, AW473407, AA309035, AI721010, BF525686, T08456, BE168731, R95011, AA593585, BE164522, AI358215, BE169297, AA588306, AW815166, AW815109, R21419, AW167476, AA506721, AI984330, AA642882, AA933907, F09641, AI984620, H17612, AV725813, BE380051, AL135371, BE886923, AW439106, AW953295, AV722866, AA862969, BG163790, BF212074, BE870915, R37033, R66798, T65164, BE566121, F15256, AW815164, AW614319, BF064228, AW001817, AA724375, R42976, AI092698, AW338411, AA365565, BF431158, AA365564, AI767448, BF739231, AW959721, BF221927, AA889202, AW815163, AW501169, AA350822, AA593964, BF954327, BF090088, BE160156, AW795832, R48126, BF960610, AA779908, AA045537, D86724, U82256, U75667, AR018045, AL049779, U90886, AF032466, U90887, AF045964, and AF045963.
HTAIX75	683	104059 1	1 - 756	15 - 770	AL520854, BF128615, BF525816, H48321, H17689, BF376847, H17759, H09891, BE830948, BE830958, BE830973, AL524180, H09234, AL524181, BF999727, R12299, Z42268, AL520853, T85877, Z41861, BF829713, BE705874, AW351575, AW375132, BF772521, and AK024423.
HODBO29	684	104062 0	1 - 896	15 - 910	AI885067, AI688253, AI570457, AV764603, BG163869, T16332, BF309856, AW406353, AV690861, AV690628, AA227293, H18458, R35332, BE260548, AA151176, AA161419, AW404488, AA243390, R58860, BE312401, H29205, W80943, W02919, BF541769, BE741045, T34002, H84560, AI572320, W32649, AI907827, T16948, BE246518, H18566, AA447824, AA113191, AA126138, AL008726, X86032, AF014404, AR016567, and AF124264.
HOCOF27	685	104063 1	1 - 851	15 - 865	AU118514, AL046707, BE018880, BE336668, W92272, AA778077, AA280361, BG035941, BE791807, AV686562, AU119701, AU117950, AA367397, AA476844, AU117738, BE378986,

HSPSE88	686	104069 4	1 - 1201	15 - 1215	<p>BE797855, BG030264, W92658, AA215344, BE733886, AW401967, AA464321, BF818328, BF913035, BF871209, AA394017, AA333488, U91543, AF006515, AL137693, AL110281, AL117491, AB007913, and AL035406.</p> <p>AL522502, AI580032, BG167858, AI814672, AI523542, BF085511, AW248591, AI673372, AV717115, AW249030, AA706791, AW069122, AA552495, AW009843, AI887757, AA702426, AW967585, AL522483, BG119838, BF084804, AI819028, AI769618, AW004998, AI003971, AA004715, AI767828, D51209, AW028878, W52965, AW514974, AA769293, AL525127, AA837168, AI285801, W25980, AI039059, AW771651, AL525128, AI311076, AW602162, AI869745, AA677218, AI813376, AI567875, AA618513, AI022994, AI052487, AA854146, AI266735, AI301548, AI832231, AI290695, BF084849, AA480013, AA934722, N26737, N20194, AI075621, AA668848, AI336515, BE139312, AA250959, AA670215, AA005144, W60442, AI336632, AI344914, AA705145, AI254375, AI590516, AI963828, AI318582, BE139400, AI583883, AI420764, AI590506, AA084523, AA483679, AA214591, AA250936, AU157618, BE857751, AI318600, AW407012, AW088623, BF002850, W26823, C06455, AV735834, AI241622, AI886710, BF055934, BF735232, AI318622, BF054864, BF718700, N29095, AW075037, BF055923, BF718706, BF718780, BF718679, T31522, AI250134, F29530, BE090812, H50863, AW023092, AW271291, AV745255, BF818430, AA856884, BE827076, Z30135, AV745621, AV686960, BG105965, AV688067, AV745595, BE708176, AV746034, H65158, AV750475, H50864, AV745496, T16485, AV745590, H53754, BF340024, H53806, BE905806, AV746420, BF813703, BE465282, AA120927, AV745583, AA385893, AV745257, N34624, BF346625, AV740255, BE258692, AW953410, AI675235, AL036612, BF084807, AV746037, BE905887, H65110, AI796558, BE905886, AI929637, AV745706, W28921, AV736646, AV737270, AL522501, AA309808, AV745991, W28285, BE764455, Z24835, T30568, AW189684, BF346696, AU138453, AA577951, AW189724, AI470855, AV739283, AV735293, BE092913, BE092992, BF332686, AW304361, AV745534, BF303636, BF332689, BE092904, BE775213, BF791676, BE139142, BF085484, AA367501, BE092923, BE645740, AW071427, AA211065, AA478966, C01872, AI281641, AI828980, AA811793, N55933, AW271045, AI280091, AW118844, AI583843, BF677954, AA742247, AV745203, AI902771, BF130510, BF818366, AA804918, BF754682, AW019940, N86733, AA199628, AI000664, AW613495, AV745710, AV646906, AI500514, AI537643, AI537677, AW168406, AW051233, AA583730, BG029829, AV747873, AW075484, AI872555, AW162194, AW073996, AI621341, AI352326, AI540759, AI927233, AW827289, AL514973, AI469801, AI470648, AI540674, AI573167, AI254341, AI589428, AI700159, AI564448, BF033296, AI620810, AI859991, AI590020, AI225000, AL513913, AI758309, U82130, AR040684, AR070431, AR040683, U52945, AF060867, AF060868, X82319, AF260436, AL359620, AL157480, D00174, S36676, AFI13694, I09499, AF260566, AK024533, AK026021, AL137560, AB044547, AB047930, AF177401, AL389935, AL050277,</p>
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HSKXM78	687	104082 6	1 - 858	15 - 872	BE778880, AW816011, BF959875, BF512759, BE697738, AW994684, BE697734, AW993955, BE879998, BE697706, AA248841, BF836641, BF902690, AI251783, AA196706, BF904841, BE843972, AA337691, AW805127, BE925951, BF092498, BF900617, AA393948, W87655, BF376916, BF954313, BF960296, BE938584, BF768665, BE886093, AU125354, BG031978, AA358761, BF920575, BE084190, BF885474, AJ242978, AK001550, AK025060, AJ132702, AC008114, and AC007551.
HNLMB92	688	104091 3	1 - 802	15 - 816	BE395284, BF688969, BE619433, BF688497, BE619955, BF034699, BE793692, AU132971, BE394828, BG251090, BG036941, W80994, AV701506, BE407112, BF972848, BE265852, AI879010, BF725090, AI929509, AW954089, BF316261, BG117117, BF970435, AW161416, AV721738, BE728687, N56607, BE183092, BE392873, BF205782, BE274940, BE385584,

HE8ON57	689	104092 5	1 - 564	15 - 578	<p>BF027401, AV752634, BE408639, BE732777, BE728237, BE727430, BE252272, BE898301, BE900237, BE729899, BE740913, BF038928, BE409573, BE896163, BF032616, AW160845, AU126758, AV704801, AV749087, BF131472, AV702802, BE730434, BE213495, AW162928, BE207136, AL520756, BE935913, BF675428, BE378166, BF870268, W68631, AI929106, BE881928, N34237, BE812182, W37964, W40428, BF032782, BE795697, N32835, W81253, BE904363, W94206, N42281, AA809528, W04934, AV709328, BE256206, BG012283, BE710126, BE709912, BF940996, AA576958, AI193112, AW512400, AI075989, AW131584, BF058872, BE222704, AI188575, AI598179, BF732486, AI188510, AI928835, AI859419, AA514324, AW156951, AI937016, N41918, AI887790, W25163, AA573181, AA318112, AI033728, W68632, AV696448, AW088350, AI033984, H20599, BF676306, AW157617, AI090342, AA335816, AA379809, AA081035, AA843808, AA310457, AW163533, AW162384, AI140063, BE710180, AI569575, AU126650, AW896853, H83571, AA864843, W63786, AI193008, BE074155, AI333848, AI570521, BE166541, N32580, AA716063, AA375374, N56833, H29945, AA854481, AA609404, AA776970, BE702998, AI090495, AI025881, R77153, AA328691, AI125378, AA492186, AA568355, W24358, BF989922, AA846502, BF949260, AA044028, AI081082, BG236775, AI339251, AI372085, AA044350, AV748865, AI199954, AA384800, AW948531, BE788352, AA319094, AA338574, W37904, AA680342, BF766824, AA576293, W81716, AW243813, AI342310, AW899923, BE958395, AA384210, W81096, N93340, AA709359, AI355754, AW948541, R31388, AA131371, AI879506, N94454, AA335677, AA826794, BF115580, AA029626, AI344619, AV700796, AA376091, AA336572, AW439289, AI364070, AI347744, AA335353, D53797, AI347372, AA375994, AW014113, AA729763, BE835970, AI094368, AV681517, N25639, AW948543, AA508015, AA247434, BF766817, BE709952, R92620, AI042237, AI001111, N32413, AA011346, AA733138, BF766812, AA384167, AA028888, AA299019, AA961519, H41208, AI306721, AA131488, AI952408, AI753978, W81543, BE074154, AW886707, W81544, AA303278, AI906349, W30800, R63543, BE835935, AA364476, AW896848, BF732438, AW608651, AW608642, AW608644, AA862419, BF081701, BE835960, AI626124, AA405223, BF941699, AA740818, AF187064, AF187065, AL008708, Z99755, AF237783, and Z68873.</p>
HOCOC14	690	104093	1 - 1639	15 - 1653	<p>AW016248, AW027466, BF110174, AL537615, BF205424, BG163867, BE294995, AV685072, AV694867, AL532813, BF791966, BE280531, BE019871, BF689588, R58479, BF683953, BE252149, BE745812, BE538062, D80087, AW376826, AW376819, AW848374, AW376824, AW848735, AW848234, H11901, AW578354, AW578356, AW848720, BE274355, BF969663, H58623, BE008928, AV707901, AW377761, BE543151, BF881008, W21607, T59768, BE392889, AW849075, BG105010, BE742244, T61979, AA150795, AA318803, and AK026004.</p>

	2			<p>BE734932, AL523990, BE616063, AL522923, AL520653, BE731039, AL528815, AI125327, BF971563, AU121502, BE408068, BE734938, BE733579, BE616725, BE531350, AU142110, BE887302, BE019956, BE561196, BG035894, BG251378, BE879259, BE559991, BE787635, BE734772, BG024354, BE732747, BE531105, AU139052, BE512825, AW044282, BE267649, BE736817, BE797463, AW245839, BE880272, BG036310, BF305994, BE888636, BE559760, AW269411, BE737311, BE874495, AI874338, BE895907, BE732526, BE889079, BF980515, BE313007, BE733664, BE261191, AW025887, BE778134, BF338718, BE258504, BF308251, BE622472, BF204668, AI570173, BE269541, AI523807, AI798015, BE322795, BE732963, BG035398, BG257028, BE560427, BE559672, BG105763, AI693964, AI623556, BE548036, AW245480, AW468763, AW340597, AA411446, BE264562, BE892193, BE501622, BE208210, BF310786, BE788219, BF433761, AA730999, AW138366, BE206622, AI951026, AW662868, BE207633, BE258321, BE208354, AI928950, AW316553, AW571892, AL042711, BF805107, AI811540, BE615656, AI619639, AI347051, AA448458, AI018662, AA311059, AW160891, AI208134, AI989392, AI797562, BF305411, BE778213, AI929204, AI359889, AA609372, AI623598, BE547532, AA824359, AW084058, BE542734, AI016414, AI422220, BG165497, AI949381, BF026772, AI176264, AA961962, AW207879, BF242341, AA075759, AI024098, AA693463, AA815024, AI682344, AW518377, AW139570, BE267097, AI469875, AA992489, BF343470, AA809911, AA953483, AA456176, AA010983, W79655, AA614851, AA291740, AA514279, AA876472, AA827321, AA512947, AI658741, AI682350, H47523, R3855, AW403338, R36775, AI185263, AA176263, AA112347, BE544672, H51240, AA665755, AA028115, AA295764, AA134798, AI376648, R75909, AA028118, H47524, AA813144, BF927787, R45594, AA359464, W81356, AI990826, AA076330, T51903, R68560, AI684678, AW168541, BE895120, AA860965, W32737, BF811152, AA335389, AA991454, BE622771, AI872701, AA948519, AA915961, BF754891, AA609388, T49869, AW848338, R25535, AI564883, AA551876, T49870, AA332151, T28632, R24448, AU123912, BF916394, BE937706, AA723878, AI886064, AA205594, H51205, AA157253, BE243482, R70578, AA074060, AA113145, AA291863, W31084, AA885389, AA037009, AA443111, AW084578, AA157349, AA693491, AA745946, W20492, AW364539, AW364551, AW364536, AW364549, AW364550, AW364531, AI000701, X06347, AI4656, AC020945, L15447, M60784, M60779, M60781, M60782, M60780, M60783, T51855, N55234, N77222, N98520, AA076329, AA205605, AA431562, AI452558, AI188213, and AW085901.</p>
HOGDP49	691	104104 9	1 - 1506 15 - 1520	<p>AL520398, AL520397, BE781402, BE562860, BE779878, BF338078, AW957700, BE887964, BE895896, BF980871, BE382512, BE407804, BE901552, BE393549, BE904389, BE551136, AA708831, BE910201, AL525080, W72758, BF057572, BF436823, BF223668, BE272529, AW977090, BF589763, AI659008, BE256374, BE780025, AI694894, BF111938, AA528686, AI097639, BF447767, AW135277, AI306571, BF663658, AI347268, AA806250, BE674395, AA737822, AI435032, AI264112, AA806253, AI355674, AA764791, AI270461, AA629351,</p>

	692	104107 0	1 - 346	15 - 360	AA737962, AW236845, BE551669, AI621104, AA741168, AA834037, AI192714, AW206133, AA487751, AA992125, AI695843, H09788, AI306570, AI188987, AA024776, BE548887, AI653737, AW768833, T16803, AI918924, AA329661, AA676766, R60971, BE890846, AI802864, W05108, AA782636, T35612, AW291890, AW771688, H09874, W77957, AW207098, BE327186, AA024775, AI183701, H11234, AA041251, W05114, N75407, AI123009, AI000134, AA460551, AA935286, AA460550, H11233, N75413, AI198141, AA041185, R61638, BF594501, Z40588, BE218709, Z44785, AI915092, BF056233, AA320849, AA746712, BF806019, AI445734, AA973406, BF694218, N55850, BF975812, AL035653, AF285118, AF088060, and AL121978.
HOFMK22	692	104107 0	1 - 346	15 - 360	AU133809, AW247757, AW631437, AU141780, AL516064, AW995203, AL535497, AW239330, AL538255, BG115014, AA211149, AW249015, AU126504, BF093036, AL538002, BF149177, AV741584, AV738583, BE934466, BG002637, BE934447, BE293898, BG107041, BE788850, AW361739, AI557500, R18319, BG024330, BE260462, BE383537, AU117400, BE799981, BF844517, AK023310, AF161479, AK023927, AJ238379, AK001316, AL109840, AC010102, AJ238742, AJ238741, and AJ238743.
HBGNT69	693	104190 0	1 - 796	15 - 810	AI624015, AI806163, AI761336, AI239973, AW014766, BE464659, AA977211, AI674651, AI148345, AI866649, BE645052, AI125625, AI086758, AI128040, AI655162, BE551928, AI161332, AI655161, AV753160, AA610185, AW236531, AI292283, AA292277, AA477646, AI690722, AA394127, AA609466, BG059648, AI190454, AI018185, BF593539, AI829500, AI700453, AW316589, AW196672, AI074772, AW341618, AW167322, AW302218, AA025586, AA838081, AI024041, AI041061, R87527, AA902915, AW594410, H14071, AI204603, H51531, AI750779, H14072, AI190999, C02480, AI671151, AW025750, H66637, AW960210, AA113917, AA377473, AI825064, AI970416, AA058796, AI203054, AI242978, W23707, AW341710, AW769637, W35307, AI567190, R11213, AA278295, H39857, AA359315, AI123865, AA293310, AI128283, AA339310, AA025710, BF934944, BF935648, AL047028, AI078227, AW604820, BG006575, BF725867, BE175407, BE175410, BE312886, AL048445, BE260545, AL096870, I38154, L41066, AF283284, and AF309389.
HSPSI42	694	104246 2	1 - 3700	15 - 3714	AL537329, AL535764, AU125011, AL528428, AL533752, AL535576, AU125456, AL516645, BF026718, BE745954, BE792053, AA630332, BE740049, AU141066, BF034894, BE903114, BE742121, AI201168, BE740144, BE735567, AL516644, BE378821, AU125164, BE563488, AI937247, BE898530, AU124908, BE619144, BF967935, BF688475, BF311849, AL528122, AI279435, BF316813, BE792504, BF026094, BE746069, BE906552, BE561254, AW857789, BE798640, BG033830, BE383120, AL518988, BE974657, BF348245, BF796308, BE304685, BG260649, BG115158, AW363807, AU125397, AI951762, AI923289, BE561374, BE262515, BE734666, BE784840, AI956069, BF026686, BE292907, BE884663, AA769147, BE897193, BE747627, BE613524, BF971971, BE546212, BE389493, BE613370, AV656237, BF034293, AI499201, BE386001, BF975490, AA218856, BE799774, BE882271, BE885327, BE870012,

BE882660, AW857788, BE744026, BF791798, AW245706, BE207154, BF969414, AI888174, AI817216, AI983235, AI887469, BG036961, BE878592, AV761440, BE208465, AW027402, BE271949, BE868709, AL518987, BE265373, BE389516, AI922294, AA218917, BF127411, BE263425, BE858687, AI073717, BE272277, AW673625, AW516317, BE019614, BF125794, AI064993, BE304402, BE868516, BE280734, AA085946, AI923725, AA602546, AI565024, BF311266, BE886999, AA404297, AI812011, AL535763, AW673840, BE390563, BE255349, AI924074, BE545947, BE898742, BF529674, AW385641, AW580426, AV695007, BE254065, AW090531, AI887792, AI207765, AI223127, AA404254, AA427529, BF761996, AW384840, BE266144, BE612644, AA058823, AI637548, AA404704, BG259387, BF805796, AA604366, AA757438, AW392528, AA075582, BE396758, AI016318, BF183223, AW385143, AA835526, AU127204, AA428337, AI754835, BE701334, BE302080, AW380207, AI858841, AW008197, AI653455, AA306011, AW247268, BE871424, AU149117, AW170338, BE255342, AU148768, AL048989, BE966597, BE903092, AI951864, AW380198, BE208225, BE561563, AU148879, BE515069, BG059819, BF594152, AW247284, AA478020, BG059914, AI889825, BE560980, AA404679, AA689590, AW880844, AW651665, AW117973, BF436393, AW753201, AI025977, AA633018, AA595997, AA708994, AA425890, BE018467, AV726027, AA648361, AA310525, AA430719, AI753602, AA838582, AA189077, AA290670, AI697231, BE539397, AA845386, AW517255, AI830847, AI091333, BE501628, BF663236, BE537826, AL119030, AA769478, BF689283, BF803802, BF063968, N21136, AW754201, AI371226, AU149064, AA088712, AI291289, AW501390, AI273324, AI802402, BF726043, AW590524, AW674160, AA983162, BG057370, AA425962, AI880311, AA479847, AI917890, AV713162, AI283659, AA633636, AA700918, AA826643, M58028, X56976, AR080319, AR083349, U58653, X52897, D10576, AF150963, X62580, X62581, AC069451, AC007585, AJ003108, AF127484, AJ003105, AF132070, AJ003106, U09051, AF088855, U09055, AJ003109, AJ003110, AF127487, Z32547, AL137538, X72889, AK027116, AL122121, U00763, I48978, AF177336, I89947, A08916, AB019565, AL133080, AF090934, AL359583, AK026600, AF242189, AL080060, I48979, AF078844, AL110225, AL049283, AL117460, A08913, AF104032, AL133104, I89931, A08910, A08909, AF113691, AL050116, AF113690, Y16645, AJ000937, AF090901, AK027096, AF097996, AX019230, AF113013, AB051158, AK000137, AL359618, AL137533, AK026504, AF119871, AR070212, AL080124, AF116688, AK026480, AF119909, AL133075, AF177401, AK025484, U42766, AL133606, AB052191, AK024538, AL110196, L31396, AK026741, X84990, AK025772, AF116602, AF130082, AB049758, AX006092, AF111112, AL133093, AB048953, AF225424, AF116631, AL050108, L31397, A93016, AK024524, AK025209, S78214, AK026927, AF130077, AF113676, AL137527, AF130104, U72620, AR011880, AF119883, AF113689, AB041801, AL049430, AK026608, AL133016, S68736, AL122093, AF130110, AR087170, AL122050, AK026583, AB047615, AK026642, AL359596, AL162006, AK027200, AK025383, AF130059, U96683, AI2297, AL389982,



AX019229, AK027113, AK026086, AL137557, AF119878, AL049464, AL050146, AF090903, AL353940, AR038969, AF106862, AL359941, AF119875, AL122123, AF130105, AL110221, AF130075, X63574, AL049452, AF113677, AF119899, Y11587, Z72491, AF111851, AK026855, AK026784, AR059958, AF116639, AL117457, AF125949, AL133014, AF113694, AF090943, AL390154, AK025092, AF090900, AL442072, AF146568, I26207, AF113019, E03348, AK025339, AK026045, AK025084, AF207829, AK026452, AL050393, AL133565, AX046603, AL389978, AL137550, Y11254, AF116610, AK025958, AJ238278, AF017152, AF116646, AL080137, AL390167, AK026865, AK000618, AF116691, AF091084, AL162083, X82434, AK026597, AF113699, AL049382, AK026744, AK000083, AK025573, AL050277, AL359601, AL050149, AR079032, AF090896, AF079765, U91329, S61953, AL133067, AK000445, AK026959, AL133557, AL389939, AF116649, AL096744, AF116644, AF118064, A65341, AF118070, AF125948, AL162002, T47146, T47147, T55491, T82385, R31941, R31987, R49533, R50000, R50338, R49533, R59791, R61332, R63152, R63153, R67608, R67609, R70149, R71065, R71066, R72756, R72762, R74147, R79975, R80074, H06048, H13384, H14128, H18345, H18382, H20129, H21602, H22265, H22302, H27177, H28153, H28180, H30623, H30781, H41509, H38337, H43710, H43797, R85056, R85252, R85307, R87782, R88661, R88662, R90796, R99580, R99686, H57454, H57977, H64352, H83652, H83651, H83972, H83973, H84742, H85379, H91830, H91873, H95345, N31151, N36534, N93096, W24747, W45194, W69739, W69920, W74101, W79639, AA015898, AA028953, AA028954, AA044029, AA044351, AA054312, AA054412, AA065046, AA069317, AA075636, AA075638, AA079510, AA079542, AA081159, AA084305, AA084209, AA085875, AA086483, AA088728, AA100244, AA101308, AA102793, AA102792, AA113142, AA113059, AA129041, AA129042, AA132518, AA132500, AA132977, AA133057, AA135213, AA135216, AA135379, AA135382, AA143239, AA143297, AA143630, AA146614, AA146591, AA147518, AA155794, AA158384, AA158491, AA171487, AA172388, AA173749, AA182425, AA182549, AA188620, AA188739, AA190511, AA191030, AA191180, AA192467, AA192507, AA214492, AA215305, AA233956, AA232386, AA232356, AA426258, AA428751, AA428835, AA429060, AA513055, AA533094, AA563580, AA565142, AA605131, AA621863, AA631913, AA578550, AA715200, AA721093, AA809673, AA832021, AA858333, AA887395, AA894911, AA902146, AA948656, F19615, W27094, W28730, C06191, AA642081, C16901, AA146643, AA213382, AA213600, AA216531, AA216539, AA291060, AA293522, AA397960, AA398889, AA402318, AA401669, AA435872, AA435969, AA454828, AA479724, AA545760, AA598670, AA629545, AA668645, AA669404, AA629798, AA677159, AA723389, AA775232, AA782887, AA844144, AA853640, AA853641, AA853904, AA853905, A1016735, D25772, T15568, AI274383, AI276316, AI366950, AI370253, AI346303, AI346621, AI472630, AI582929, AI583061, AI123177, AI124629,

HPDQD23	695	104264 9	1 - 1077	15 - 1091	<p>AI174585, AI187054, AI683160, AI687716, AI698463, AI799777, AI866042, AI866172, AI869250, AI811428, AI950547, AW005833, AW008960, AW028874, AW028883, AW105566, AW075520, AW149883, AW196157, AW204687, AW193629, AW293092, AW302633, AW440524, and AW473482.</p> <p>BE146091, AV731652, AA522450, AI921634, AI685396, AI333397, AW970651, BF987908, BG013985, AI242047, AI750154, AI186846, AA418333, AI264351, AI274932, AI285813, AA434477, AI678027, Z99365, AA216639, AA506505, AA703512, AA223178, AA179929, W02703, AA169167, T89653, AA169800, AA205463, AA206489, AA837803, AA233457, AA211589, AW854574, AA210851, BG255562, AI144451, W25656, BG236150, AA219599, T67419, AA838754, AA573603, N27177, AA872467, AA160532, N66779, AA205505, AA196784, AA227186, AI360851, AI094704, BF940575, AA227445, AA219255, AW593673, AA205926, AA223472, AI262493, F10104, AW674105, AA807651, AA223497, AI052113, AI762542, N90352, AI820789, H38219, AI949977, AI709011, AA843865, BE061531, AA213692, H23607, W05366, BE061527, AA890486, AA173762, T53321, AW129244, BE675378, AA242847, AA252138, N93216, AA424458, AI871419, AA832265, BE061578, R47880, BE061530, BE061526, AI567438, H54619, BG058115, AA424412, BE061504, AW593679, BE061575, AW967555, AA401064, H86776, BE902611, BE733329, AI821441, AI732265, AA205222, AW874361, BE536565, AW341960, AW796182, AA015818, AA936323, AW896622, AA535465, AI280212, BF736442, BF900157, AA984688, BE146078, AA017326, AA346818, AW152224, T88944, AI858539, BG260886, BE278946, AW813774, BE388701, AA319772, AI743039, AA219557, BF736726, AA528333, AW505355, BF771250, AU119575, BG167443, BE541505, L13822, AA434396, AI017153, BF028916, BE154397, BE145948, BF840889, BE154394, H87778, BF808793, AA362431, AA227040, AI863156, AW854595, W38856, U74760, AA348524, BF686523, AA250783, AW963287, AI535936, BE158521, AI821544, AA394230, AV705967, AV704542, AA444044, AI732704, AC005699, AP001695, AC004998, AP000230, AP000144, AL109967, U96004, AL358337, AP001595, K01891, AL160234, AL034345, AL109938, AP001697, AP001598, AL023877, AC007486, AC008842, AC012150, AC010180, AP001747, AC010451, AP001628, AL163213, AF212831, AL049643, AC004456, AC005771, AB019437, AC007001, AL137228, U96001, AL022068, AC007114, AC005090, AC025253, AC003091, AC005820, AC009318, AL133257, AC022424, AC005150, AF130359, U96006, AC009946, AP001729, AP001414, AC026431, AL161788, AC022308, AC005145, AL163210, AL109620, AC010267, AC007250, AL035419, AL031003, AL137072, AL360078, AL035401, U96072, AP000013, AP000155, AC007237, AC007751, AL109762, Z97053, AC007193, AL035610, U96068, AC007870, AL050348, AC073071, AF235093, AC007390, AL009031, AL031118, AC002326, AC008269, AC012089, U96061, AC066598, AF146191, AC004025, AL157817, AC024164, AC008984, AL137062, AX035733, AC009229, AC006515, AL163246, AL109954, AF108839, AL365189, AF053936, AC023154,</p>
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HPDRZ16	705	104461 8	1 - 978	15 - 992	

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HVCBC44	706	104463 5	1 - 1177	15 - 1191	AL519186, AW419048, AA100804, AA121287, AI911097, AA502311, AI075431, AU128651, BF083756, AW089948, AW132123, AA100952, BE466029, AW083432, AA488316, AI990554, F28643, AU156613, AA741512, AA731380, AA731382, AA207032, W79581, AA731381, BF059144, BF059729, AI655521, AI655502, AI808218, W79780, AI970106, AA251012, F37179, AA262868, AW439007, AW589846, AW439035, AA730238, AI640142, AA329792, BE799812, BF813785, BE868398, AI559734, AW087255, BE791631, AW750380, AV704162, AA252138, AA242847, AV704313, AF226667, AK024070, AK023549, AK025654, U49385, AC004087, and AF086422.
HPIAC22	707	104471 1	1 - 2036	15 - 2050	AI924197, BG259817, BE268308, BE270476, BE042939, AI571743, AI467993, BE514280, AV705060, AI422722, BE397774, BF525749, BE269234, AI885549, AA001424, AI417323,

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HSODA53	708	104474 1	1 - 1993	15 - 2007	<p>AA488860, AW118663, BF679533, AU157678, AW968930, AA488937, AW502897, BF949789, H91281, AU138611, AI174822, BG251769, AI911406, AA319438, HI3953, AV723659, AV723812, BF379751, BE781989, AI138991, AV724029, BF680401, AK024359, AC005495, and AF119885.</p>
HE9ML74	709	104476 0	1 - 2109	15 - 2123	<p>BF973550, AV703947, BE735983, AI141536, BE177941, BF111296, AW960419, BF593246, AA716179, BE538079, BE672999, BE899473, AI638212, AI769556, AW972475, AI963758, AI761109, AW576535, N24244, BE502221, N49976, AI890512, AW607778, BF686370, BF061544, AA888851, AV727854, AI204229, AI492301, BF965554, AI399665, BE464401, BF906460, BG150554, AI684997, AA397545, AW452929, W58540, BF724940, AI308244, BE048924, BF957204, AW994200, AW167166, AI032858, BE541283, AI990115, AI191763, AV719539, BE813538, AI687674, AI356174, AW237523, AW237513, W05191, AA825680, AI628442, AW051464, AI955375, AA446754, BF934288, N45103, AI768999, AI623958, AW604370, AA844351, AW072581, AA877508, BF964485, BF326688, AW967467, AW272007, AI434348, AV649740, AI991466, BE813583, BF326690, AI367528, AI419248, AA757020, BE813608, AV649840, AI769025, AA112631, AA441882, AI990676, AW937758, AW885989, N31202, H12678, AI457681, BE176156, BE843670, AV709716, R53677, W58506, AA923689, BE086457, AA113334, BF438757, AI632857, N28982, AI917528, BE176253, AI357469, AA432070, BE176150, AI241039, BF091010, AA730921, AV691901, AI969586, AI391527, BE176080, BE176039, BF893922, AA630054, AA761119, H75496, R23846, AI584086, AW194837, H05294, BE813411, H05344, AA732634, AA305435, AA353992, AI244139, AA385220, AA513775, BF858939, AW999931, H98911, R63556, AA844045, D62444, AA251162, AA334217, AA441821, H68149, AA399063, BE001143, N74346, R12743, AW198016, BE001204, AI867622, BF963511, BE088866, R39795, AA251128, AW409654, BE088700, BF822863, N72430, BF339136, AI474839, AI499364, BE172967,</p>

HPDRB76	710	104476 2	1 - 3729	15 - 3743	<p>C00849, AW798975, D79370, R53565, BE176215, BF310902, R63511, N52755, BE176152, BG012729, AA860414, BF326699, AI026093, AI829446, AA513776, AI453716, AL110222, AK024847, AB032957, and AL121999.</p> <p>AB005622, AL519058, AL513611, AL519059, AL529375, AL532483, AL525289, AL529374, AL526549, AB005621, BE274852, BF982898, AU125970, BE622992, BF796408, AL513612, BG106187, BG034879, AL526367, AU128506, BE897919, AU133789, AW968284, BF965878, AW409718, BE275712, BF791733, BE617862, BE789855, BG178771, BG258108, BE408698, BE896160, BF686705, W05712, BF309732, AI192372, BF694788, BG028726, AV688212, AV691606, BG033618, BE540959, BF679745, AI762781, BE617406, BF037845, BE885892, AI361029, W95848, AI089780, BF036880, BE785363, BF241381, BE301944, BF984223, AW192519, AI082053, BF195946, AW327951, AI683326, W02312, BE296841, AI217910, BE208446, AI423184, AW170457, BF948889, AI082059, AA315835, AA628941, BG120646, AI744437, AV653540, N39056, AI653453, W94951, AU150788, AI057594, BE782892, N36102, BF211911, BF432772, AW001561, N48248, W60626, AA789238, AI472150, AI183431, AI268418, BG106759, AI913193, AI625729, AV735137, W60627, BE909357, BE895991, AU154985, AI150225, AA029868, AW072811, BG030191, N73085, N31137, AI625935, BE468023, AI367260, BG178198, AI758701, BF211840, AI691042, AI968738, AW956547, BE785015, AA706232, AA873148, AA281272, W56310, AA831365, AW241427, N69937, AW241485, AA429410, AI436052, AA689532, AA774576, AW013970, N41726, AI129695, AA954718, AA429457, AI612726, AI337986, AI672852, AI188847, AI041266, AI024764, W42834, AW304081, AA857427, W76138, W23563, AA126802, AA259087, AW965470, AW514066, W05439, AI813834, W96133, BE858752, N98402, AA507981, AA745068, AA037072, AA121379, AW731880, AI018474, BF435085, W56456, BE694795, AA036958, AA598936, BF432261, H09730, AI018407, AA962630, AA773937, W56426, AW440750, AA043877, N39058, AA406074, AW058561, BF149112, AA824556, N44108, AU119157, N21122, BG057814, H10488, AW440768, AW996949, AI598269, AA112260, AA719556, AA781363, BF209642, AA315392, H20077, W60534, W56311, W60556, BE206569, AA877673, AL121231, W31644, AI949712, R81197, AW243211, AA628877, R87173, AW589397, AA602997, AI658880, AA825924, W56353, AA494332, H87565, AA629343, AI659961, AW167307, BE542553, AI339381, AW192520, H09696, AW193684, W96132, BF844933, BF239292, H93440, BG031200, N98614, H66652, H81871, AW883387, BF037979, W24238, R37464, AW884472, AA962473, AI079581, AA996224, AA825584, AI826389, AI420920, AI269305, AW080050, R53826, AA205450, AI159792, BF382871, AA599040, R48985, AV684456, BE833359, H01702, AA689475, H96126, AI199477, AA514855, AK023758, U54645, M16225, AF056332, D90280, AL035411, AL020995, U39945, U84371, AB020202, M16224, D90069, D13061, AL133249, AL121652, D90067, AF076633, E04317, AI012288, AF055917, AF003737, T39695, T70955, T93340, T94018,</p>
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HSYDI55	711	104476 9	1 - 1576	15 - 1590	AUI36917, BF205289, BE397937, AL531689, BG169850, BF975130, BE220494, AUI38732, BE540278, AW954061, AW956739, AI796023, BF205443, BG171279, BF857500, AA164517, BG171303, AI699703, AI268056, BG166578, BE813909, AI265884, AV713795, BF447802, BE139089, AI458243, AW136662, AI472328, AI440050, BE500953, AI858271, AW511531, BE046481, BE503455, BF591012, BF195935, AI476281, BF222795, AI694704, AI445711, BF115624, AI610309, AI927962, BG166246, AW339786, AA971085, AA708922, BE503272, AI421319, AA465255, AUI56932, N49590, N67740, BF091626, AI914058, AI274909, AI190112, D20733, AW188089, BE789377, AI858737, AUI57726, BE275478, BG256465, BE813963, BE220862, AA857052, BE936270, AI217103, AW379725, N49070, AA383123, BE551639, W86964, H60699, BF573578, AI040284, AI762085, R51650, BF432031, N31773, AW273437, BF091557, BG178271, BF056174, AA769783, AA812984, AA383124, AA661899, BE242063, BE241787, R93782, AW304171, N56201, AW139929, T60662, T64969, AW615368, AW002388, AI341196, AW594520, AW664816, AA465147, BE972735, BE548258, H98958, AI308213, AI364564, AA984765, T57763, AI769568, AW612305, BF748531, AA603698, AA827085, AI638355, AI190529, AI364456, AI420514, AW301000, F37231, F24191, BE207700, BF439061, AV682063, AI569188, AI784377, T25055, AW996932, AW407523, AA279845, AW991326, AI699592, BF904839, AA812498, BF109474, BF222718, AA535238, BE814080, AK001954, AF151819, AF257318, AF263364, AF263293, AL049597, and AB007960.
HOGCI31	712	104482 1	1 - 917	15 - 931	BF973454, BE727445, AL531039, BG115169, AW969042, AW206059, AA700020, BF968627, BG114062, BF432198, AW957238, BE537060, AI672358, BE326492, AA916774, BE003525, BF980402, BE003532, BF684794, AUI51013, BE003523, AA699619, AA827289, AI024492, BE043951, BE206364, AUI52265, AUI58148, AI032726, AI208858, BF973606, AI375573, AA725543, AA287974, AW510399, AA693821, AA770210, AI240892, AI824282, AI684175, AW362905, AA426229, AA525966, AI049580, AI342427, AA262040, AI032993, AA291268, N59203, BE328503, AW383419, AA291339, AA504437, BE064374, AW273123, AA767810, BF350525, AA626831, AI188629, W45184, AA993418, BF446920, R60802, AI524794, AI797031, AI796476, BE747743, AW779035, W42659, AA782458, BE741947, AA203299,

					<p>H18939, H50988, AI701999, AV754863, AW021687, AA769274, AA480957, AA235431, BF884832, AA524731, AA746717, AA765847, BE242449, BE064375, BE396252, AA730421, AA370678, AA327714, BE898594, AW957236, H51642, AI215039, AI500031, AI613496, AA259009, BE064373, BE844252, AA908871, AA362131, AW780116, AA659009, BE931789, AA664580, AA504201, AA778342, BF593055, AI888704, BF976418, AW673901, BF758920, AV717910, AW383401, H67581, AL110271, AK023702, and AK025390.</p>
HNOKX86	713	104489 3	1 - 1022	15 - 1036	<p>BF970013, BE783656, BF971148, BG105075, AW510702, BE896959, AW188107, AW006794, AI983025, BE910195, BE782150, BE906341, AI015619, AI301966, BF727414, BE858813, BE880216, AW168796, AW051432, BE890490, BG054826, BG178384, BF679757, AI125994, AI360252, BE879146, AW149790, AW071976, AV702313, AI583243, BE785316, BE881479, BE074234, AI924167, BF699289, W95089, BF670105, BF674585, AA846833, AI912804, AI805679, AA769460, BG109223, AI955820, AA918990, BE973606, AA702505, BE547758, BF184398, W95090, AA995358, AI581725, AV754940, AV707627, AI128802, AI025955, AA702099, AA527383, BF196614, BE122666, AI418108, BE048049, AV747543, N42404, N33447, N42420, AI308924, N31382, AW014670, AI857970, AA293374, AI718979, AA948391, AI300946, AI369901, N24088, AI075836, AI056727, BF340421, AI014666, N35120, N24587, N33735, AI446529, BF743351, AI336552, W38924, AA886635, AW182324, AW630926, AA147675, AI797735, AW073663, AA719417, AI720299, AV742727, N23506, AI335652, N71994, AW627640, BF115412, AW086197, AI360960, BG251694, AA507156, N94922, AA885121, AA701511, AI346138, AI262338, H99753, R74310, AA953666, N29163, N58294, AA713692, W04143, N54557, AA398521, AA648593, W79708, H50571, AI282475, N24140, AA953525, AA782200, AA782844, R23867, AW877810, F37061, W57541, AA157599, W81380, T31783, AA946607, AW952439, AA938014, BE764972, AI300210, N70117, H40663, H45202, AA627360, H50365, T19230, H40733, AI026634, AI620903, AA063083, R67980, BE693583, H97133, AI243093, H50336, N42319, H70236, AA576208, H42168, N33428, N66148, R33701, AI000953, R74212, T35747, N33907, T62950, AI262339, R67981, N98671, AA701513, N28470, AI541287, T62802, AI277219, N76637, T31262, R22630, BF817665, AI955533, R39387, N29483, AA931753, R22631, BF572160, R33596, H27877, F30122, R28433, AW583802, H70237, AW382331, H45185, BE714145, F31733, R38311, AI872684, R25406, BF964201, AA328918, BE811585, H42989, AA512926, BG178689, BE811484, BG115626, AA834433, AI090035, Z42779, AA063133, H41269, AA709283, BE811590, HI3228, AW297741, BE701599, N99376, AA912616, AI468912, AA181716, AW750247, H59925, BF214441, AI221915, AU142828, AW382456, BE170265, AV753284, AV739258, AV737288, AV743484, AV753722, AV738516, AV701224, AV741385, AV701471, AV738340, AV740375, AV701422, AV738631, AV742732, AV701384, AV739963, AV735357, AV742047, AV742725, AV701030, AV701123, AV701130, AF092138, AC006254, X95834, AX030944, and AI498102.</p>



HTPHG81	714	104511 7	1 - 2100	15 - 2114	AU124431, BE700940, BE700869, BE700936, AW960435, BE061069, BE908235, BF870875, BE772035, BE700861, BE772040, AI903097, BE700876, BE840628, AI700395, BE700938, BE700862, BE700873, BE700945, BE700943, BE772042, BE700937, AW390483, BF525944, BE842730, BE842726, AW582015, BE772099, BE700941, AW514159, BE700904, BE772053, BE772066, BE772082, AA781090, BE772081, BE818958, BE818955, AA305705, BE772059, AW170237, AW965129, BE772019, AW581975, BE840457, BE830929, BE772101, BE818964, AW339256, BE840434, AW820559, AI079309, BE772020, AI140441, BE700851, BF849721, H70004, BF359589, BE832289, BE700898, AI905362, AI022857, BF091071, BE927455, R11344, AW517983, BG012510, AI903834, AI401014, AI379419, BE842723, AI434349, AW673336, BE818962, AA719006, BF439588, C15468, AA703354, BG010792, AI434349, AW673336, BE818962, AA719006, BF439588, C15468, AA703354, BG010792, N50989, BE772047, BE772018, AA574083, BE836162, H69547, BE772074, BE818915, BE170135, BE840445, BE772086, R09631, BE772015, AI251845, BE772087, BG011742, AI243536, T63151, AI983670, T63006, R06603, AA890663, BE772017, BF110884, BE830923, AA565124, AW868068, BE830919, AW752129, AW868069, AW674579, BE818892, AA731490, BE818951, R14845, AA344670, R07438, BF738252, AK027078, AL117402, AB007936, and AK001249.
HPCTV49	715	104537 9	1 - 576	15 - 590	BG105380, BF969874, BF791362, BE294238, AI708983, BE562951, AA639261, BE905959, BF205851, AI817372, AV735170, BE797554, BF245538, BF983670, BF679415, BF239185, AI277914, AW951784, AV744259, BF972333, BE378677, AI196003, AA158111, BG112886, AI199301, BE336876, AV726412, BE539723, AA211640, BF211561, AW884452, AI114687, BF718736, AA614365, AI199303, AA196119, AA669012, AA211585, AA961699, AA191452, BE382522, BE564019, AI369878, AW024386, AI088810, BF210300, AA928043, AI186091, BE395743, BE866704, AI199158, AI803530, BE395559, AV735419, BE206116, AI356575, AI083939, BE881084, AA548552, AI476158, D56069, AA669359, AA724190, AI347760, AA872509, AA147830, AI278100, AA192651, AA070828, AA782902, AI815655, AA070056, BE866200, AA192676, BF212031, AA610321, BF678688, AI879955, AA923683, BF969895, AI224845, AA564302, AW130508, AI434457, BF962151, AA503189, BF948015, AA910390, AA158110, AV742633, AV744698, AI878958, BF964919, BE311727, AA308438, AI863146, N95018, AV745283, AI344806, AA112888, AA186678, AA526631, AA847739, AA602428, F26539, AA938523, AA083874, AW074943, BE958153, AA316417, F17706, AA099735, AI038843, BF956344, AA146746, AA506417, F26205, AV739187, AI801282, AA146747, AV739630, D52869, AA192987, AV746403, AI540297, AI149112, AA385291, T27780, AA664835, BF573989, AW262292, F28424, AV745990, F22200, AA644540, F27688, AW973119, AA531375, AI475222, AI906360, BF676400, AA533539, AA773178, AV744177, T64019, BF211310, AA373881, BG030785, BF574629, AV681847, AA580408, BE877175, AA669013, AV696866, D54115, AA224280, BF667957, BF216797, AA244162, AV728485, BE044954, AA650377, BE908110, T23953, AA317596, AA729652, AW629957, AV726694,

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HHGDK68	716	104546 4	1 - 2166	15 - 2180	

HNOKM38	717	104550 0	1 - 5155	15 - 5169	<p>             AW968555, BG112918, AU131374, BF663523, AL039261, BF303987, BF307905, BG251559, AV753028, BE799852, AW976694, BE348623, AI192780, AW975771, AI824140, AW970158, AA855062, BF593932, BG254148, AI553813, AI652642, BE676603, BE547167, AW025094, BF205581, BE465313, AA442404, BF929424, BF115230, AW956014, C18242, BE858311, AA463617, AA910953, AA149637, AW005325, AW500219, AI131430, W22181, AW892169, BF310817, BE974198, AI653494, AI144153, AI147052, AW500584, N48492, AA600846, AW084489, AW881107, AI146715, AI131429, AI184485, AI857619, AA043233, AI356899, AW273471, AI292205, AW009154, AI092851, AA507221, AI475747, AI081975, AI027527, AI188617, AA514494, BF108742, AI003781, AI140121, AI813409, AI769089, AI097484, AA031367, AI131528, BF108751, AI077719, AI870311, AI636315, AI092702, AW504357, BE166730, AI151189, AI280813, BF377335, AW149704, AI949569, AI144289, AA808626, AI302699, BF092734, AA928737, AI818837, BE166727, AW085809, AI151243, AW072397, BF092684, AU153117, AW674814, AI081578, AW963712, AI299669, AW576157, AI696710, AA031366, AV704638, AA261786, AI082187, AI291767, AI122662, W44973, AA486067, AI096891, BE645337, BF732335, AA459445, BE674665, N93420, AI493100, AI810357, AA724134, AA150668, AI830807, AI126909, AI695065, AV706466, T64320, AI830919, AI473840, AA233863, AA972657, AW025734, AA975233, AA838818, BF888438, AI660743, AA678995, AA131522, AA701056, AI186771, AI095875, AI937199, AI198335, AA043497, AW151759, AI148806, AA039552, H63629, AI090278, BF888611, AW074422, AW166401, AA610498, AA079367, AI143324, AA932400, AA121939, AI419022, BF828267, AI298091, AI298830, BF432768, AA046027, AI814554, AA086173, AI291750, AI333860, AW500312, AA495941, N93195, AI279234, AA079366, AW504352, AI189949, AA235192, AA948186, AI566530, AA235305, AI459658, AI135516, AA234879, N34281, AI917944, AW996594, BF902332, AA150791, T86560, AI039499, N55334, AI219345, BF116056, BF058704, AW246911, H87243, N41823, AI459676, AI281364, AI219522, N95716, AI827160, AI864427, AI222287, AA854438, AI184792, T90637, BF888464, AA936270, AI308929, AI335780, AI749548, BF058780, T78159, AI200243, AI908307, AI146908, AW191632, H63630, AA961001, AW968730, AA928837, R72109, R53119, R92798, W77770, AA495942, D78921, N44173, AI151399, AA553709, AI089857, N35506, AI436061, BF732362, AW369792, AA088583, AI445384, AI299676, AV704653, R93253, R67862, AI277503, AI034120, N32868, Z28359, W07407, AA243431, N23435, R00240, AA279203, AA234903, AC003036, Y12781, F38006, AC012068, AC009494, T54329, T54404, T60642, T65670, T86738, T83164, R00349, R24045, R67863, R72066, R93159, R93893, R93894, H96272, N32874, N40453, N77340, N80278, W21461, W24959, W38781, W42673, W72105, AA034328, AA036664, AA046079, AA057288, AA058733, AA076639, AA100341, AA121940, AA131309, AA149505, AA224420, AA232808, AA235055, AA463265, AA279195, AA280646, AA282022, AA465669, AA661633, AA688118, AA745876, AA814049, AA830728, AA862668,           </p>
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HHFUN47	718	104584 2	1 - 4688	15 - 4702		AL118822, AU120116, AW269317, AW235710, AW949780, AW835591, BE885389, AW385523, AW368195, AU136378, BF672321, AW949772, AV647327, AA020767, AA805651, AI133211, BF790480, AW611834, BF678033, AA533280, AI934341, AI129264, AI623210, AW117432, AA032025, AV728387, AI761894, AW835672, AW804652, AW368145, AW835676, BF575294, BF241005, AW501351, BE207839, AW835756, AI148094, BF673972, AI754312, AW118039, AW118031, AA056300, AW302578, AW673464, AA741269, AL040731, AI080261, AW501352, AA047451, BF449051, AI076275, BE547656, AI168388, BF701512, AA825450, BF696195, N69536, AA733179, AI372863, AA644402, H79608, R86224, W00822, AW339691, AA773699, BF701693, AI032486, AI343746, H79607, AI168384, R84852, AW592904, BE907830, R59102, AA017282, BE744773, AI863708, AV732392, AA830217, AI247995, T74357, AA083799, AW955352, H86635, BE536679, AI13340, AA773860, BF029973, AA317438, AW748183, Z25042, R98711, BE084828, BF086229, BE930149, BE930157, BF086233, R98935, H86640, Z28740, AA047508, Z44414, F12677, R77563, AI248001, R59103, BF964981, H86386, BF909593, H66174, AA325403, BE695829, BF086234, H72726, R48554, BF987882, H85264, N99687, BE930144, H86547, AA370230, R39409, R77464, M79138, R54000, BF215788, BE958434, AV725256, BF815162, AA768433, R22817, H86552, BE930179, BF343210, BF822505, AI365558, BF343307, H66175, F10288, BF807929, AA917319, H82743, AA777671, R39650, BE930207, H64896, R21203, H83618, H72727, R92960, AA354071, AI052753, AA325917, AW043708, AV657290, AI813384, AW275798, H64897, BF840999, BF343127, BF987880, AI802143, AI659361, AI633530, N77699, AI692218, C01333, AW512682, AI078548, AI373722, BF001516, BF308373, BE409393, AA295269, BE005257, AW387711, AW675785, AI185142, BG055127, BF343973, BE930154, AI589187, AA974704, R86225, BF086222, AI492965, AV732391, N84068, AI334970, BF109219, BE764445, N86911, BF332083, AA911023, AI523089, AA724435, AW771479, AL040732, AW002191, AI040768, AW629685, BE764472, BE246666, AI699869, AI479544, D79918, AI268089, AI129110, AA031914, AI433888, AI344749, AI962683, AI984242, AI261676, AI401253, AI245165, AW470003, AA020768, AI982771, R29471, AI274493, D63477, and D16924.
HNTSV18	719	104599 5	1 - 491	15 - 505		AW630624, AV689396, BF847954, R13365, Z45071, AV688500, AJ000534, and AF036364.
HWHGU08	720	104613 7	1 - 2859	15 - 2873		AI261617, BG252364, AI963829, AI857990, AI431824, AI632752, AI590245, AI953341, AU150524, AA888092, AW300119, AI797786, AW969008, AA194057, AL516571, BF111123, AL516572, AU150299, AI436657, AW080248, BE219089, AI149239, AI891112, AI073870,

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HE6CR19	721	104617 7	1 - 1191	15 - 1205	<p>AL527780, AL527781, AL519895, BF684507, BE728826, BE732828, BG033941, AL519643, BF195663, BF026407, BF440019, BE781977, BF440052, BE778879, BE787075, BE780848, BE387517, BE563797, BE778881, AL519894, BE736231, AL519642, BF036674, BG105762, AA127810, BE960859, AV759501, BF725812, BE782483, AA639784, BF213309, BE779179, BF667921, BE877161, AI088520, BF593734, AI984009, AA035465, AW173349, BF679234, AW162019, BE513040, AI453530, BE675483, BF681153, AI719084, AI719711, AW575396, BE440008, W52852, BE390815, N34255, AA643698, AW160399, AW152523, AI342341, AI361959, AA121482, AI336152, AI887169, AI954927, AI142474, AI953987, BF239121, BE254564, AA088249, AW051781, AI359968, AA922338, BG254402, AI609114, AI144474, AI143580, BG025562, AI127719, AI685961, BF939832, N25654, AA120783, BG054734, AA455701, BE300789, BE784090, BF036389, AI493197, AV751872, AI337879, BG170723, AA507014, BE883738, BG252431, AI467977, AA830816, AI087247, BE253888, AI040901, AI978624, AA832498, BE276608, AA024762, BF972946, AA976499, BG254889, W80466, AA181577, AV711565, BE904995, AI291251, AW239079, BE876001, BE380086, BF516510, AW151050, N30499, AA132426, AI188805, AA120782, AI950951, AA045679, AW304280, AA865206, BG165235, AA910216, AV721356, BF028243, N33152, BG255156, AV734719, AW055058, AI680538, AI423011, BF691779, AI302349, AA974887, H74189, AA648271, AI149371, N23533, AA176232, BF111041, BE463645, AW390100, N79791, AW337755,</p>

HE9EJ82	722	104685 6	1 - 698	15 - 712	AI680260, N34854, AI190500, AA505915, N89904, N79707, AA831991, N42142, AA938653, AW407963, AI983698, AA974414, AA312807, H70394, H84952, N21267, AW055150, BF182781, BE280989, AA723429, BF217992, AW953806, BG113179, R20300, BF697509, AW152458, BE874970, H73369, AW079935, BE834190, BF701098, W60079, AA857060, AV725874, AI354756, AA846240, W76420, N43927, AA455649, AA176320, AA876647, AI631124, BF084806, AA740167, R97376, AA887421, BE739243, BF971153, W19497, AA687553, BE543360, AA836918, AA505366, BE739508, AA570008, H79944, AI189939, AW261898, W31972, AA574162, BE964765, BE894109, BF726887, AW407596, AI873685, BF244338, AI573053, W72663, AI38660, AI362342, R99236, BE961088, AA024761, BF741937, AA654253, AV737407, AA302225, BE866570, R07414, AW044054, AA837569, AW517926, W80575, C00198, AW439161, AA305409, AW439165, T69791, AW198013, AA132425, AI349594, AA182911, F13802, T70776, BF666742, H73299, AI301991, AW439156, AA743522, R99001, AA307572, H80110, N89901, BF033829, N56317, AI784471, AF151028, AL358777, AL024498, Z98752, A74520, T89607, T85051, R43641, R43641, R97377, H73965, N62759, AA035464, AA467792, N56343, AA708668, AA779494, AI244847, AI206671, AI811438, AW002325, and AW439162. AI264167, AW024384, AI805143, AL528716, BG176833, AW188479, AL515117, AW316653, BF978676, AW468539, BF220255, AW151268, AI660059, AI884397, AW083210, BE866994, AI857495, AL528715, AW083845, AA492597, AI183391, AW103944, BF972455, BG231692, AW247328, BE967211, AA044722, AI192356, AA155851, AI951000, AW954615, BE546302, BF345334, BE904786, BE887942, AV699862, AI127249, AI445073, AI087041, BE622662, AL515118, N92603, BF036604, AI857493, AA434308, BE741571, AA576070, AI300862, AA412005, AA524752, AI683151, N52268, AA993030, AW001923, AA055695, AV747912, AI080731, AA130480, AI434530, AI801301, AI307431, AA115961, AI612157, AI344752, AI198498, AA084354, AA872949, AA527933, N50030, N89917, AI002849, AI349158, BE046190, H27858, AI445684, AW574666, AI308038, AW591757, BE874691, AA181084, AA494207, W38769, AW073576, AA760954, AI076897, R11530, AW270393, W02683, AA833912, AI610933, AI126708, C75128, AA564733, AA834042, AI570039, BE619739, AI199906, AA479661, AA552405, T03363, AA578826, AI318567, AA812622, AA508099, AI066707, BE892061, BE905303, AI274403, BE301812, AI762529, AA244143, AI291785, AW075097, AW408246, AI291798, BE747408, AL250873, W90686, AW074529, AI950523, T29477, AW472719, AA602326, AI674354, AA694448, AA618563, AI216558, AA416905, AA358787, AA164194, AI749612, F36797, BG111256, AA705144, BF761489, N72919, AI254726, BF207259, AA885864, BE839977, AI274575, AW950543, AI093111, AA427770, AW245476, F33231, AA397569, AA622229, BE313059, AA614511, AI184775, AI749710, BE839987, BE839838, AA328240, T52766, AA678126, AW079415, BF183458, AA399530, AA977965, BE742136, AA357104, BF360273, F22057, C06188, AA357102, R96895,
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	723	104698 0	1 - 327	15 - 341	<p>AI587231, AA099350, BE382586, AA101881, AW771669, AA910681, BF836927, BE734934, AI682313, BE746459, AL529177, BE744427, BE258891, AA852152, AA358654, BF248355, AA852358, BE297140, AI984288, BE877060, BE311736, AA299606, AA661606, AW661909, AI122552, AW189262, BE272381, BE898538, H28680, W25636, BG114330, AA852357, BF525821, BF931289, AA583685, BE741111, AI869393, BF345637, BE619179, BE735020, BF968691, AA340042, BF206661, AA551610, BE880823, AW516654, M78597, BE539017, AA244087, AA904001, AA477161, AI560687, AI085898, AA704032, AA328638, AA307307, BE278409, BE878183, BE780897, R96896, BF081567, AA564848, BF792236, BE747488, BG250791, BG257565, BE740210, AU132767, BE397605, BE622013, BE258856, BE253487, BF752901, AI337497, AW009743, W90781, AI752049, BF032555, AI148866, BE735762, BG121159, X74104, D37991, X53529, X53591, T50689, T52765, T98893, N71905, N75551, W05343, AA055363, AA187592, AA610237, AA894874, AA911431, AA999703, N85487, N87010, AI474603, AI207089, AI687012, AI831774, AW009433, AW105264, AW263400, and AW273054.</p> <p>AU126881, BF983814, AI557307, AK001343, and AB023206.</p>
HRADC23	724	104713 7	1 - 2288	15 - 2302	<p>BE792114, AL534348, AL534349, AU124491, BE562397, BE730315, BE744720, AU121103, BE741883, BE794040, BE798051, BE902365, BE734769, AU138176, BE250049, BF313678, BE274812, BE616156, BE791884, BE743514, BE792079, BE899195, BF663485, BF337566, BF026377, BE512749, BE729142, BF970574, BF974320, BF311538, BF343802, BE791179, BE794696, BE967223, BE732083, BE735292, BE891114, BE740517, BE876949, BF663556, BE612746, AW953708, BE899109, BF316276, BF220113, AU123329, BE855899, BE907314, BE261130, AU138135, BE250022, BE280747, BE388938, BE514266, AU139275, AU139772, BE617604, BE207133, BE614858, BF568538, BE646559, BE269929, BE512850, AW009368, BE407831, BF967992, AI127417, BF127578, BE304393, BF027687, BE391369, BE390191, BG180845, AV727024, BE389618, BF204525, BE896693, BE407376, BE858244, AU138529, BE891905, BE272012, BE385611, BE388055, BE398168, BE729753, BG055002, AI174970, BE269924, BE277405, BE252867, AU124535, AI745604, BE269570, BE884489, BE267965, BF967269, BE789154, BE390973, BE255883, BE253680, AU139847, AU122058, AW249536, AU135396, AI816428, BE391850, BG261416, BE743657, BG027907, AV734566, BE315559, BE730574, BF034659, BE904702, BF971755, AA837518, BE901600, BE884643, AI333777, AW960014, BF304373, AI754405, BE268246, BE387151, BF364911, BE293615, BE389505, BF436344, AW953707, BE277342, AV722757, BE254088, BE616947, BF435115, AI088783, BE389938, AI017341, W73293, BE382443, AI147213, AW960003, BE313512, AI815488, AI391611, AI687490, BE251116, BE301958, AA054638, AI978906, BE840536, BG231617, BG179142, BE208839, BE388273, AA481724, AA461067, AI762506, AA481485, BE931983, AI161029, AW072033, BE898683, BE293820, AW182359, BF681691, BF207095, BE259061,</p>

<p>             AI188625, BF219880, BF155692, N21640, BE720638, AW069631, W73238, BF970217, AA311057, BE389980, AI066650, BE855747, AI081964, AW316842, AA429031, BE857563, BE394169, AW023435, BE562038, N52163, AW418678, AA496780, BF090365, AI090204, BE677045, BE385324, AI885101, AI016096, AI246228, N30905, AI188263, BE876627, BF091259, N33541, AA489159, BE840439, BE090196, AW960610, BE410706, AI189311, AI523320, AI264252, BF929247, BE740645, BG236073, AI498755, N23821, N36391, AW021658, BE391517, AI032633, AA805527, AI082191, BF574528, BE293639, AI754248, AW007166, BE390217, N26501, AI039590, AI126855, AI061177, BE613212, AA976459, AI937917, AI140456, AI885404, H96584, AI361000, AI200432, AA995066, W94866, AI375797, BE276398, W23462, AI393171, AI079801, AI031798, AI168236, AA084368, CI7499, AA599882, AK000826, AF119891, X93499, AX013198, X12535, X89650, Y13361, AK024417, AL162009, AK026136, M35522, AF050175, U44104, AF286535, AF050174, Z22474, T41237, T49365, T49366, T52494, T52573, T53095, T92375, T72624, T72694, T81377, T81378, R14901, R18863, R32401, R32402, R35379, R41223, R47838, R49680, R41223, R49680, R60220, R60454, R62777, R62778, R68347, R68558, R68602, R69984, R69983, R70049, R70099, R70110, R70111, R73016, R75787, R75788, R77741, R81163, R81162, R81802, R82737, H00591, H01475, H01574, H02329, H02431, H03133, H14206, H14205, H17129, H39723, H39768, H38506, H44544, H44543, H47922, H48101, R83597, R83749, R86347, R87499, R88197, R88544, R88545, R90857, R90896, R92428, R92517, R92794, R97827, R97878, H56353, H56358, H56352, H57277, H57276, H57291, H57292, H61391, H63424, H63481, H63622, H69522, H69529, H69984, H73434, H77487, H77488, H83444, H83552, H87182, H87516, H87517, H87687, H92814, H95169, H96705, H96877, H98704, H99090, N22193, N22209, N23816, N24271, N24594, N26093, N26550, N26694, N26849, N26959, N27238, N28881, N29394, N31558, N33151, N33740, N34613, N35554, N35658, N35664, N36733, N41454, N41520, N44266, N46127, N53144, N56769, N58578, N63694, N67629, N70259, N70715, N71234, N73095, W01103, W33194, W37260, W45114, W80436, W96012, AA034507, AA043679, AA043680, AA081531, AA088213, AA121263, AA121474, AA129984, AA157916, AA157917, AA158844, AA160027, AA160981, AA161468, AA160609, AA199850, AA199923, AA227520, AA233408, AA252257, AA258678, AA460495, AA425847, AA429245, AA224790, AA228371, AA228360, AA259238, AA470411, AA490334, AA490442, AA502402, AA525787, AA535596, AA548548, AA552917, AA558406, AA565116, H63574, H69977, H75564, H92813, AA600897, AA614009, AA721476, AA731273, AA738063, AA806152, AA808086, AA811700, AA826452, AA833982, AA847464, AA848042, AA877387, AA877989, AA862492, AA909842, AA935369, AA948405, AA976796, AA991878, AA991882, AA999948, N92137, N99615, N99851, W02323, W04194, N87352, C14063, AA641344, AA081101, AA090154, C15260, C17157, C17928, C20569, AA093238, AA160980,           </p>				
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HOPKT59	725	104716 9	1 - 1993	15 - 2007	AL538267, AL538268, AL536316, AL519069, AL518089, AL515220, AL519068, AL534091, AL518090, AL518720, AU118653, AL513972, AL516932, BE396428, BE561425, BG030683, BG168170, BE902101, BE889741, AU120625, BG258226, BF969760, BE881362, BG109328, AV715166, BG031962, BE560577, BG170701, BE271235, AV697227, BE563297, BG110584, BG035319, BE778261, AV687629, BF793338, BE867409, BE537748, BG028050, BF968668, AL518719, BE779869, BE899369, BE868440, BG034796, BF795452, BF794003, BE535885, BE536946, AI114609, AV683224, BE908653, BG170806, BG028857, BF790207, BE888202, BE176437, BE252802, AV682238, BE790123, BE884131, BE886162, BE383007, BG026597, AV648458, BE780464, AU121530, BE785759, BF317433, BG165377, AV723872, AW246426, BF102623, AW246676, BE790083, BE894533, BE621952, BG168808, BE780001, BG260764, BE176464, BE560381, BE781301, BE895718, BE342076, BE268194, AA861515, AU127224, BE866204, AL536315, BF219209, BE547995, AL134953, BE536554, BE893450, BG251870, BE537883, BF665254, AW574534, BE397344, BF130962, BG117986, AW951780, AW961790, BF665393, BF213508, BG036975, BE909591, BE393351, AI057535, AV695128, BF243084, AA640788, BE565377, BE893448, BF667482, BF241609, BF382787, BE882314, BE548460, BE966884, BE623002, BF669327, BE567045, BF030561, BF382276, AV648438, BE566531, AL515219, BE271127, AW026704, BE768761, AI890350, BF094514, BE539503, AA478931, BE779052, AA788718, AW085632, BE958103, BE910474, BE566183, AW020966, AI754764, AW027875, BF212113, BE301928, BG120145, BE939321, AA705802, AA669341, BF341741, BF431052, BE163541, BF699060, AI525599, BE566933, BF246771, AI565691, AL516931, BF668817, AW291598, AL518721, AV648187, BF028376, BG035478, AI371145, AA564341, AU126239, AI924037, AW089712, BG179942, BF594063, BE257258, BE909857, AA315150, AW474730, AI348106, BF034401, AW511476, AI913311, AI128178, AI582889, AI498850, AA789326, AW630868, AI278005, AI567879, BE271121, BG025633, BE221459, BF340121, BF377699, BF804951, BE858659, AA315129, BG108412, AV648349, AA620387, BG259842, BE542108, BE785934, BF591540, BF525858, AA599830, AW072545,

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HMCFK45	726	104721 2	1 - 1013	15 - 1027	AL521763, AL521762, BF792361, BE261099, BF526380, AI986196, BE889615, BG256168, AI921080, BF527738, BF058408, BF685525, AW129664, BF665973, AI889328, AI720586, BE778576, BE263619, BF681436, AV764474, BF527915, AL534665, BE727439, AI494337, BE043924, AW304856, AW245895, AI334063, AA878881, BE778413, BE047261, AI937111, AW005094, AA046873, AA236621, BF794030, AA436426, AA587338, AI131298, AI150026, AI264608, AI039900, AA209292, AI689537, W44562, AI033606, AA432040, AA708471, AI384070, AA431781, AI460207, AI566174, AI208747, AW245638, BE165650, AI338120, AI075087, AI148620, AA236897, AI003886, AA553372, AI160495, AI860826, N37025, AA588125, BE772371, AA991703, AI860722, BF670021, AW173632, AI031930, AI148963,

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HPIAN63	727	104738 1	1 - 923	15 - 937	

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HNSME49	728	104740 3	1 - 1283	15 - 1297		AL523562, AL523563, BE378573, BF206213, BF975035, BE741172, BE731890, BG169379, BF312271, BF056266, BF684218, BF204109, BF974071, BE275663, BE616390, BE266413, BE251848, BE312782, BE395951, BE738719, BE616657, BE785253, BE562006, BE394175, BE281417, BE395250, BE385799, BF699117, BE393978, AW161930, BE280885, BE266301, BF212649, BF797676, AW327483, BE383915, BE392818, AA522682, AI879343, BE207213, BE407786, BE738153, AI927308, BF684140, BE278833, BE278348, AI887795, AW157569, AI720383, AW168022, AI189980, BE267205, AW078785, BE385795, AI745650, BE786772, BF515375, BE389083, AW341049, BE779313, AL037204, AW249997, AA280809, AI621091, BE047746, AW161588, AI381975, AI879723, AI803074, AW022517, AI985130, AA476629, BE769360, AA679795, BG034061, AW163444, AI763315, AI936543, AI866527, AA583868, AI694596, W26865, AW016826, AW515140, AI685799, AI224558, AI382901, AW238803, AA076232, AI968250, AW241422, BE514362, AI825161, AI214277, BF939583, AI203033, AW602826, AI962655, BE272870, BF934247, AW207092, BE252620, AI370488, AI206860, AW377597, AA076233, AA602981, BE551059, BE765181, AI682531, BE765007, AA280861, N50855, AI611693, AA805491, AA757347, BE378176, AW378754, AW007634, AV712854, AL525708, BE765158, AA449158, AA928507, BF092051, AL121780, AL121900, and M90309.
HWEAC64	729	104747 3	1 - 709	15 - 723		BE618503.
HOCQI51	730	104748 3	1 - 1694	15 - 1708		AL526732, AL521724, BE898418, AV729573, BF037796, BF034373, BE549240, BE396381, AV726692, BF974647, BE397839, BF528776, BE513516, BE513533, BG177494, BE513961, AL521725, BE559679, BE781919, BG179481, AW016879, BE312441, AW027739, AW960345, BF000603, AI937001, AW006300, BF000621, BF223444, AW665359, AI984913, AW732370, AW027749, AL526698, AA514389, AI420117, AI376011, BE268873, AW044304, AW170680, AA927748, AI805193, AI597781, AW083552, AI285216, AI380507, AW965544, AI955084, AI131407, BG121860, AI921290, AW573286, AI220811, AW467548, AA335820, AI860832, AI567117, BE675325, H20004, BE297532, AA803985, AI497610, AW196701, N50962, AW580605, R89359, AI685370, AA463330, AI675238, BE397659, AA305422, BF247434, BE909347, BF087638, AA948600, AI749405, AA954980, AA720818, T72734, AA313736, AA352987, H81154, AA613712, AI917200, H20005, BF874291, BF690826, AI971540, T83260, AI174354, BE241897, AW467675, BF915871, AA927279, AW572779, BE269418, AA157946, AI910070, AA157109, BE241698, AK000437, AB034912, AB034911, AL136528, AB031234, AF235000, AI953044, and AI991519.
HOPKE15	731	104763	1 - 1513	15 - 1527		AL523829, AL523830, BE748885, AU123670, AV718375, BF797141, BF568841, BE887723, AL523829, AL523830, BE748885, AU123670, AV718375, BF797141, BF568841, BE887723,

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HMAEL73	732	104764 6	1 - 2558	15 - 2572	AL532426, BE279744, BE386143, BE893884, BE315356, BE409326, BG036503, AW967111, AW961024, BE395210, BG163373, BE882916, BG164806, AL532425, AW205627, BE715432, AW519019, BE879585, AI829143, BE888360, BG119756, BE326884, BE349200, BE646191, BE787868, N57477, AA402175, AI052349, AI338603, AI494300, AL449727, AW965679, AA861385, W93399, AA643939, AI148517, AA609481, AA782461, AA305901, BF950214, AA860606, AA397690, AI494301, AI193064, AI127902, AI609156, AL449728, AI310400, AA603477, W27291, AI292350, AI186245, N47622, AI248335, AI017696, W92807, BF818795, AI188548, AA399037, AA723059, AA169582, AA056679, AA729892, AW384923, W92846, AA399076, AA778601, AA412051, AA086075, AI242362, AA976896, BF109039, AA086074, AV708868, AA843552, BE715430, AV709683, AW892880, W35189, AA044042, AI201884, AA351819, AA056575, AA317955, AI246351, AW379151, AW242255, AA338497, AA411984, R67339, AW006538, AA534373, AW379194, AL449527, R66505, AI247477,

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HNOKE42	733	104766 3	1 - 1458	15 - 1472	AL537309, AL534923, AL538147, AL514646, AL518134, AL534922, AL515144, AL514938, AL537739, BF798047, BE779102, BG110531, BF794729, BE882547, BF311527, BE784081, AL518133, BE898001, BF038322, BG122138, BE777792, BG112262, BF983614, BE885503, BE907779, BE619105, BE875113, BF312594, AW385985, BE177539, BG028156, BE868250, BE870956, BE872233, AL514645, BG109955, BF670395, BF346910, BG168710, BG026197, BE780520, BF983531, BF797061, BF339680, AL538146, BG169331, BG028740, AI129342, BF725462, BG171543, BG252293, BG249056, BE887341, AL037611, BG105682, BE888335, BF035037, BF818006, BE885648, BG164156, BF528550, BE257521, BG031713, AI802026, AL514937, AI983543, BE778562, BE882490, BF061647, AI990763, BE892035, BF965918, AL037610, BE541114, AI652540, BF316618, AI000619, BF744480, BF059626, BE536045, BF925139, BE801724, AW750023, BE895920, AA232766, BG255779, AI905957, BF342272, AI365054, BE261410, BF371935, BE702478, BF367977, BF349486, BF371940, BE142967, BF371926, BE768197, AI126461, AW934913, AW803204, AA232632, BE789515, BE255672, BE251893, BF354308, AI424726, AW934911, AL515143, BE142794, AL037608, AI393617, BF382938, BE768236, BE768129, BF358546, BF361194, BF358539, BF371904, AA913112, BF371898, BE768201, AW751701, BE004342, BF371894, AW176051, BF371900, BF358544, BE767990, BF371892, BF744337, BF744338, BF371879, BF888166, BF358573, AL537728, BF354309, BF746402, BF888256, BF358575, BE834218, BF747016, BF907582, BF371930, BF746494, BF887422, BF888144, BF746493, BG027152, BE767988, BF358579, BF358537, BF368667, BF358577, BF358572, BF746409, AL537639, BF358561, BF381335, BE160864, BF990698, BE047805, AW948956, BF371953, BF371862, BF184327, AL531930, BF309803, BE774413, BE768168, BF358557, BF367961, BE744496, BF746405, AA366622, BE768071, BG150224, BF744334, BF368642, AV726854, AW953059, AW748718, BE873784, BE379011, BF887417, BF911134, BF747018, BF371922, BF371961, R35559, BE548241, BF371889, BF747019, BF747022, T09118, BF907637, BF358578, BE543886, BE774162, BF747017, R44882, BF333533, AW057993, BF445006, BE467280, BF108461, AA420782, W26640, BF907640, H79330, BF887425, BE768196, BF907641, AA470498, BF358582, AW674592, BF356716, BF243408, BF377229, BE964054, AW948865, BG000044, BF972193, BF380438, BF948002, BE768097, BE881355, BF335554, AV729326, AA093128, BF335537, BF382440, BF380435, BE768099, BF371863, BF037905, AA155819, BF333429, R41146, BE768088, BF986234, BF358563, BF362106, BF838633, AA913547, BF371901, BE536145, BF371868,

HOFABE31	734	104767 0	1 - 208	15 - 222	<p>BE768103, BF371856, AF116272, AB041651, AF155654, AF090922, AF176646, AF095791, R34232, AA508194, and AA249393.</p> <p>AI718967, AI066500, AI191408, AA970891, W16766, AI074219, BE697102, BE174216, F25014, N45385, BE697153, AA465517, BE697155, BE933955, BF125263, BE279614, AA602119, N94010, F32882, F26209, F25830, N98860, BF890754, AI934901, N77808, AA528414, BF910925, AI338326, AW088372, AW102799, BF082865, BF446895, BF910923, BF940764, BF940090, AA320204, BE407862, BE880623, AA768215, AI151192, AA788658, AI150785, C03969, BE880657, AI302844, AA725287, BE274216, AL038871, BE250832, AI350125, AI568272, BF184324, AA983392, BF025668, AA525200, BF690188, AA977031, AI093521, AI580262, AI720008, BF982252, BF982387, H97078, AV757870, BE280265, BE746297, AI313204, AI626036, AA526171, AA877563, AI144433, AA934574, AI079769, BE537552, AA573686, AA639915, BE336619, BE621249, AA574008, AA976783, T51767, AA492272, AI189510, BF689799, BE621639, AI281422, BE070317, BE270062, BE206770, BE731365, BF726456, BF792623, BG179454, W70094, BF314551, AW804011, BE514138, AI926973, BE278145, BE279378, BF949692, BG104162, BG104416, BF594000, BE252445, BG116305, AA845331, BG033879, N75412, BE795222, AU159719, AI279463, BF210737, AV742989, AA568387, AI201886, AW768247, AA526497, AW084218, AV712368, BE385906, BF239254, AW731911, BF035862, W05113, BF184184, AW955528, BF686583, BE314818, BE275317, AW970035, AW970026, BE298305, BF025789, AU122825, AV645751, BE384271, BE885135, BE735322, BE274738, AI626023, AA315135, AI417313, BF983625, BE906981, BE880936, BG035931, AA642788, AW192600, AW102964, BE252941, BE312467, BF949657, BE719070, AA894481, AA737308, AU122918, AA872663, H93685, AI440105, BF245202, AV758831, AI187012, AA829129, BF238782, BF978001, AA609288, BF037764, AA760958, BE697121, BE409754, BE877422, AW951759, BF026394, AI187043, BE729053, AA448150, AV714599, AI205981, N94451, R77045, BF210261, BE697128, AW514708, BF215823, AI187001, AA578537, BE878700, AA181352, R76883, H20456, AI219168, AI185992, AA614765, AA738347, AA708433, F29053, BF212130, AI984516, BF211261, BE733706, BG107033, BF207675, AA492189, AI869280, R83917, W30797, AA503282, AA781308, BF247001, AI301663, BF673951, AV744514, AA782226, AA448007, H94367, AA771978, AA844201, AA134082, AI984517, AA782267, AA843941, BE259316, AA928994, AI205979, BE939608, AA732966, BF125305, AA508863, AA349148, AW514216, AW161501, BF218574, AI815573, AW513129, AI816249, AI027040, AA962040, AA373789, AI336883, AA081960, AW082030, M36647, Y00764, S61826, and AL122001.</p> <p>AA524368, AI696510, AI674756, BF726517, BE219922, BF115854, BF082289, BF223977, BF082295, BE709446, BF994702, AI653814, AW970760, AI493036, BF082257, AA927734, BE709723, AI742259, AI273298, AI751752, BE179959, BE179828, AW023832, T58856, BF086689, AI335806, AW193944, AW969786, AW387268, AA491635, AI982984, BE812093,</p>
HCLCX62	735	104771 6	1 - 1943	15 - 1957	

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HNOAC93	736	104782 0	1 - 844	15 - 858		
HMEJA45	737	104784 8	1 - 385	15 - 399		
HLDAS11	738	104793 7	1 - 2233	15 - 2247		



	739	104800	1 - 976	15 - 990	<p>AV695890, AW474738, AA235006, BF591727, AI473648, AW444436, AI453775, AA976885, AI554850, AI744678, AW662311, AA432198, BF826164, AA411193, AA856575, AI802375, AI240381, AI805984, NS3228, AA902517, AU153139, AU153201, AU160220, AU149981, AA633556, AW571651, AU146533, AA732554, AA398095, N73775, AV648281, AI658850, AW591720, AA693813, W03922, D81541, BG056884, AW591305, AI269162, AI050698, AI093710, AA257980, AA872982, AA233692, AV656068, D81376, H57533, BE090253, H57534, BE089691, R32629, AV650024, AV651265, BE090262, BE089675, H72479, AI378463, AU143071, AI278448, D61024, AW970707, AA356813, D80871, BF767608, AI572718, AW021225, AA381648, R71379, AA399573, BF242145, H15501, AI536017, AI291594, AA381354, H72880, BF591732, AA768658, AW803196, AW390750, T79641, AU122030, AW998422, BF185555, R31158, T79727, AI872714, T80069, AV696210, AA381995, AA579383, T80891, H72158, AW998416, N66352, AA236265, AL045223, T70314, BF116026, BE547062, BF360188, AA321074, Z41949, AA295261, BF510030, AW503123, AI619790, AW388020, BF828794, N98415, AI582180, BF896721, BG152697, AA454520, D87742, AK025122, AK025506, and AK026489.</p>
HWMJB31	739	104800 9	1 - 976	15 - 990	<p>BE304457, BE617215, BE794425, BF744311, AW419202, BE906071, BE409035, H38334, AI124650, BF759902, AL533012, AA300183, AA324325, AL532968, BE409065, BF923651, AA299557, BG255262, H53446, BF745967, AA337307, AA336843, AA299817, AA336805, H30706, R84598, H38499, BE617695, R89516, BE082820, BF857426, AW578650, AW361826, BF870291, AA663855, R46417, BE796786, AK024593, AX013117, M27444, AF233349, and AF233348.</p>
HAZAA31	740	104818 8	1 - 2129	15 - 2143	<p>AL515521, AL518695, AL515714, AL515558, AL515715, AL514564, AL515894, AL516404, AL534973, AL518694, AU131173, AL515895, AL534974, AL515559, AL536049, AU130290, BE794152, AU125520, AL516317, BE733098, AU125092, BE746923, BE794981, BE791638, BE731397, AU130373, AI188253, AU143550, BG023902, BE744896, AL516316, BE531024, AU124578, AU125971, BF792516, AU138955, BE616473, BE729421, AU125450, BE615200, BE615543, BE563848, AU125003, BE275254, AU131011, BE728018, BE869056, BG035448, AU142978, BF527447, BE789624, BF340883, AU131096, BG024796, BG177633, AU126508, BG109742, BF530968, BF984286, BE615009, AU123237, BE786105, BE731315, AW166145, BG034286, BE896158, BE782098, BF341031, BE543473, BE274751, BE735992, BE734587, BE744172, BE271218, BE869393, AU143024, BE869793, BG029911, BE876396, AU141457, BE614701, BE869741, BE614465, BG115206, AI476768, AU122005, BF797789, BE614982, AU125950, BF970334, AI625268, AU136128, BF970691, BE901014, BF026355, BE618475, BE276036, BE676167, BE616881, BE779338, BG115054, AL515520, BF206604, AU121965, BF026079, BE869898, AU125968, BE617234, BE781881, BG105890, BE336933, BE273463, AW076037, AI879038, BG176859, BE892191, BE513174, BE397646, AU141603, BG108066, BE673534, BE619328, BF982855, BF569494, BE880193, AU142767, BE546811, BE257373,</p>

<p>             AU141109, BG033903, BE868662, BE251831, BG028919, BF981033, BE542904, BE872784, BG116865, BE396649, AU141666, BG030818, AL534029, BE785400, BF183010, BE409019, AU129778, BE871920, AU120301, BE789804, AW006207, BE887026, BE513936, BF526694, BE729696, BE546759, AW166818, BE384449, BF125365, BF982339, AU127536, BE884839, BE384228, BE888681, AA918153, AA401829, BE793518, BE261909, BE261086, AW328489, BE545367, BE270074, BG252271, AU131824, BE311587, BE301301, BF691757, BE867766, BE786130, BE616680, BG170609, BG120079, BE465573, BF530135, BE540795, BG031241, BG255541, BE885615, BE549332, AA576732, BE788731, AW467975, BG122082, AW073925, BE894664, BG035513, BE545226, BE548744, BF026528, BG114923, AW170136, BE542358, BF796830, AI571741, BE614477, AW467237, BE615090, BE895634, AU133665, BE878951, BE221317, AL536048, AA488671, BE910415, AA173087, BE614925, AW239520, BF691519, AW239235, BE613859, BE740522, AA293660, AU126194, BE252807, AW440952, AI567736, BG177861, BE787660, BE892362, AW161166, BF125980, AU139187, BG034736, BE869994, BE543505, BE867425, BF570128, AU149114, BF529384, BE736509, AW467532, BE259323, BF983758, BE741860, AW401516, AA486054, AU150557, BE018830, AI922907, AI569478, BE206585, AU149524, U55017, X67688, L12711, U09256, AF195533, U05809, DI7222, U90889, Z49258, A74840, AF026816, AK000486, AL359622, AF087943, I89947, I48978, AK026462, AK026480, AL122050, AF111851, AK024538, AF026124, A08916, AF130099, AF057300, AF057299, AB048954, AF242189, AL050277, A08913, AR013797, AR079032, AF177401, AL442082, A08910, A08909, AF314091, AF116691, AF097996, I48979, AR038969, AF111112, AK026927, AX027129, A65341, I33392, AL049314, AF119909, AL117457, I89931, AF017437, AR087170, A77033, A77035, AK026542, AK026744, AL359618, AK026532, AF119865, AF130059, AF090943, AF067728, AX042059, AK025339, AK026959, AF116654, AF090900, AF158248, AL110225, AK026593, AL389982, AL137521, X63574, AL110280, I03321, AF119860, AL117460, AF090903, AF130082, AF260566, AF116631, AK026408, X82434, AL049452, AL080159, AL133565, AL133075, Y11587, AJ000937, AF183393, AX006092, AF113677, AF113699, AF130105, AK027164, AL117435, AK026534, X72889, AF091084, AF116676, Y16645, AL110196, AK000432, AL390154, AL137459, AL137538, AK025798, A93350, AL389939, E07108, AL050149, AX010492, AL050146, AL353940, S68736, AF116644, AF118094, AK025967, AR000496, AL137560, U39656, AF130075, AF125948, U00763, AB051158, AL137271, AL110221, AL353956, AL359620, Y07905, AF119875, AL137550, AK000137, AK026506, AL049464, AL133016, AL359615, U42766, AL080124, AJ012755, AL122110, AK000618, AF113019, AF119899, AK026528, AF218014, AL050138, AK026629, AF143723, AK025084, AK025209, AB048974, AK000083, AB052200, AF116682, I00734, AF146568, AF090901, AL122093, AF056191, AL133560, U35846, X96540, AF003737, AF113690, AL049466, AB048964, AB048953, AK026526, AL133640, AF225424, AK025414, AF079763, AK027204, AK025491,           </p>				
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HOCMC83	741	104830 0	1 - 2694	15 - 2708	AL527718, BE727092, BE277284, BE799194, BE383971, BE903316, BG255149, BE269261, AU130997, BE893222, BE409350, BF026446, AW967431, BE278876, AU127743, BE388306, BE296444, BG255006, BE297279, BF026993, AA400211, BE390589, AL037594, A1972516, AU124175, BE261560, BE277082, BE389530, AU129574, BE617885, AA400122, AL527719, BE390249, AA237058, A1923544, AW167897, A1923081, BE297995, AA582199, AU151663, BG179436, AW962854, AA236859, AU128680, BE297707, AW081352, AA599540, AA594981, AA075795, AA757241, AA490530, BE617429, AL037593, BE515229, A1190926, A1420338, A1342628, A1623217, BE464071, BE464072, AW511378, BF061878, AA620310, A1199369, BF923681, A1553839, BF568678, Z44647, AW015643, BG117344, AA311944, AW013951, AA258294, AA918784, AA768625, BE833134, AU155528, AW246032,

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HCFCs40	742	104842 7	1 - 4397	15 - 4411		BG164191, AL135185, BF983123, AL041280, AV687584, BG250650, BE788908, AV645574, BG115164, BF342638, BE876977, AA702184, BF671348, BG248849, BF351087, AA152030, AW474133, BE539165, BF513442, AW269763, AI962971, AA935874, AI150109, AI554409, AW007775, AW468469, N34238, AA890008, BG169542, AW021321, AI082758, AI922307, AI199306, AA282370, BF248155, BF374008, BE547356, AA037349, AL041279, AI688218, N22419, AA278551, AA406318, AA152104, AI367278, AI797211, AA203606, AA258062, AL038734, AL038733, AI089356, AA884389, AA017390, BE930063, AA661741, AI082269, AI770119, AI824725, N31270, AA421935, BF352616, AI027376, AA233026, W39547, AA918822, N25640, BF352611, AI027020, AW876088, N39100, AA911009, AA836812, AA992896, H04053, AW876064, AI002479, R55560, AA970541, AW995402, AA332109, AA806318, AA759257, BF885893, BE177081, AA232852, AA593839, AV697997, AV695832, AI797333, R68540, AV690252, H68957, BF926234, AA485458, N22883, AV734002, AA337924, BF820595, BF926247, AV694870, BF820597, AA384849, W44899, AW241214, H65584, H03366, Z19311, R67924, R55321, T67446, AW243674, BE048922, N70432, AA017389, AW876067, BF759974, R68246, T96801, T96685, AV696911, AW965295, AW876091, BF927515, BF820591, AA376097, BF763395, AA236633, AA994146, AA336479, R36914, BF858626, BF755224, F00568, N48457, AA282020, AA094925, BF735336, T69479, BE714862, BF126700, AW103805, AW799660, BF924148, BE165021, BE542967, BE161951, AX013176, and AC009778.
HVCAA65	743	104859 5	1 - 1131	15 - 1145		AL521488, BE794903, AL521487, BE563119, BF311687, BF663525, BF316035, BF972207, BE379400, BE733903, BF969940, BE379536, BG177397, BF663800, BE741051, BF971998, BE729168, BE736783, BF973389, BE745021, BE909578, BE733626, AI660852, BG248225, BE901526, BF974412, BE795026, BG119307, AI417797, BF032519, BE787609, BE535312, BF308375, BE379343, BE897445, BE515175, BF982093, BG034587, BG031389, AI884769, BE873096, AW189946, BE407248, BF439454, AI884696, BE735454, BE265534, BF033418, BG164975, AA779721, BE383460, AW467291, BE892125, BF685536, AA886993, BE410832, BE254532, BE262168, AW964964, BE892855, AW001586, BE536855, BE736274, BE222590, AI224897, BE907203, BE395007, BF432624, AA521312, BE251359, BE620472, AI394546, BE620877, BG256162, AI018808, AA520988, AI951973, BE255086, AI301892, BE392541, BF382865, AW247221, BE545214, AA866196, BE302496, AA594969, AI015226, BE790135, BG112878, AW246255, AI457658, AV709367, BE207409, AI680866, AI185022, AW410905,

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HVVCH35	745	104865 8	1 - 1309	15 - 1323	AI719545, BF116178, BG248226, BE886380, AW024407, AW081534, BF207082, AW003531, AL044449, BG250696, BE538221, AI885407, BE784939, AI553796, AA613650, AW246550, AI921772, AI673517, AW082921, AI417178, AA490655, AI340075, AI214250, AW263806, AI560048, AA595365, AW960860, AA580265, AW872780, AI360297, AI870293, AI829934, BF036691, AA490654, AI827461, AA857878, BE537572, AI360358, AA846693, AA001318, AA374910, BE314431, AI318298, BE837126, AI085813, AI376538, H27782, BG007963, AW135529, T07218, AA948279, AW074629, AA568231, AA910140, AA297010, AI494449, AW248341, AA953262, AA832012, BF511306, AA297016, AI423518, BF529929, BF244493, AA906871, BE884493, AI383030, AW150846, T30682, AI140575, AW025214, AA001905, AW407144, AW248342, C01279, AW152182, BG181066, AW149925, AI619502, AA911767,

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HOFNI66	746	104873 9	1 - 1445	15 - 1459	<p>AL530216, AL521109, AU142923, AU124020, BE620897, AL530217, AU139055, BE614285, BG249413, AU117715, BF791855, BF792043, BE905897, AI497784, AI079885, AI627724, BG115303, AU136535, AW027189, AI161162, BE620496, BF238205, BF793082, BG115364, BF674174, BF211375, AV655959, AI755104, BE873639, BE274185, BF978983, BG024148, BE909026, BE909886, BE613569, BE179535, BG165236, BE709660, BF027043, BE255543, BF211390, BF671615, AI858095, BE382569, AI858089, BF698299, BF674668, AW303647, BF679395, BF130367, BE872201, BE564380, BF668512, BE886397, BF686410, BF530535, BF696552, AA888140, BF031198, AA308340, BF668978, BE709627, BE903870, W63800, BF976812, BF672839, AV701080, BF184137, AI299948, AL047241, BF665241, BF184254, AW949833, BF027849, BF209984, BF698050, AW381010, BE179583, BE710076, AU128945, BF240933, BG057708, BF184002, BE886398, BE018338, BF668825, AI609570, BE865979, AI269439, AA541733, BE179848, AU151158, AW173704, BE179837, BF575945, W56342, BE880225, AA400690, BE958179, BF184743, AL048187, AI424970, AA907800, AI637570, BF677814, BF698677, N25016, BE961148, BF243189, BE301821, AI128409, AA455688, BF977839, BF675341, BF206562, BF110242, AI347125, AU160114, BF381932, BF028808, AU157870, BF030745, BE179773, AI309277, AU156768, AI342535, W31858, AI697500, BF132213, BF107247, W37254, AI279003, AA043048, AI284914, AA308417, BE709419, BF214757, AW194139, AW630565, AA316857, AI738894, N31020, BE709376, H98801, AW381028, AW080729, N29020, AI285055, AW263113, AI281272, AA042809, BE180002, BF209075, AA455635, BF030408, AA677062, BE179396, AI888237, BF669378, BE709506, AA053138, AA679690, BE709422, BE180004, N20648, AA630049, BF214514, AA625708, AI697336, BF477504, AA738269, AA984024, AA505758, AW304756, AW168326, AI299638, BE709796, AI886825, BE709521, BF209013, W03507, W39286, AI051020, BE241819,</p>



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HMSKI90	747	104879 2	1 - 3315	15 - 3329	AV719955, BF346320, BE796439, AL040921, AL042905, BE538259, AL135377, AV714931, AL042906, BE541237, AV759046, AV764490, BG032943, AU119532, AV761286, AA330079, AV756726, AW600804, BF826830, BG028665, AW963982, AA577824, AV719941, AU157011, AV760723, BF850080, BF805173, AI054414, AV699393, BE067011, AV700663, BF828714, BF980390, AV764201, BE297356, BF917486, BF876683, BF982222, AW243793, AI791227, AA742815, AW965008, BF901147, AA487475, AI457389, AI061646, AV710705, AI133516, AV718718, BG056362, AA126635, AV722075, BE676158, AA736713, AV719402, BG260565, BG171097, AU117926, BF679792, AU148007, BE867712, AL042282, AI016192, AL041706, AW963473, T07254, AL042310, AA640277, BE883679, AC005066, AL158167, AF067844, AL109759, Z98036, AC007198, AL009051, AL360227, AL138478, AL161804, Z73417, AL049650, AL133163, AC011362, AF198097, AP002535, AC004847, AC018755, AL138812, AL133500, AP001720, AC004448, AL049870, AL132988, AC012467, AL022318, AL358372, AL138783, AC016644, Z99496, AC009169, AC027312, AL121933, AL132708, AC010186, AL121984, AL137793, AL161422, AC020717, AC006334, AL163248, AL022147, AC008701, AL133405, AC007207, AC002981, AC006511, AL035661, AL035411, AC026371, AP001688, AL139395, AC005062, AC004898, AC008083, AL121895, AL031432, AC005252, AL080316, AC006441, AL135783, AC012596, AC001231, AC004609, AC055736, AC019226, AC008555, AL031673, AL034400, AL158141, Z93023, AL020994, AC008551, AL139109, AC000085, AC007151, AL135932, AC006461, AC007385, Z84480, AL035703, AC009414, AC009501, AL031315, AC005280, AL136303, AP002898, AL445189, AL136531, AC009455, AC005901, AL110502, AC004981, AL031287, AC008163, AC034207, AL121574, AL109854, AL078477, AL161627, AL133548, AC019106, AC073934, AC011310, AL031054, AL137000, AC009039, AL162811, AC009484, AC007365, AL137072, AC006205, AC018637, AP001747, AP001716, AC005840, AC005702, AL136097, AL050321, AF227510, AC005064, AL049712,

HSYBI49	748	104915 1	1 - 1181	15 - 1195	AL353804, Z93015, AP000350, AB017602, AP001627, AC007919, AC068139, AP001708, AL356115, AC020908, AC004021, AC004835, AC005003, AC007597, AC010609, AL139382, AL139396, AB016897, AL133244, AL163218, AL135744, AL121900, AC015971, AC022407, AC005859, AL138759, AL158196, Z98172, AC009502, AP001718, AL049831, AC011604, AL023280, AC010748, AL163301, AF111168, AC006504, AL049874, AC023275, AJ006345, AL033533, AC006011, AL121585, AC003950, AL121932, AC007000, AL117344, AC010632, AL162430, AC016950, AC022103, AL133245, AL035422, AL359272, AC004884, AF130343, AL354942, AB045364, AC012085, AL160234, AC016925, AL353633, AL357153, AC012064, AC004650, AF240628, AC005386, AC007684, AC009302, AL158828, AP001728, AL109627, AC007842, AL138919, AL022163, AE000659, AL136090, AC008651, AJ400877, AC005538, AC003029, AL022575, AL132990, AC003098, AL009178, AC024947, AL137818, AL391384, AL049646, AC005164, AC007954, AC010150, AC005037, AJ246003, U95743, AC009481, AC005996, Z99129, AL136454, AL031012, AL135841, AL109797, AC006330, AL031311, AC026704, AL121581, AL133453, AC005201, AL392106, AL158040, AC005412, AL079304, AC068713, AC006479, AJ011930, AC084693, AL137074, AL158033, AP002022, U96629, and AL353133.
HTXSN37	749	104937 2	1 - 4778	15 - 4792	BF971178, AL801638, AW960418, AW089881, AA484795, AI700113, AI452474, AI220875, BF747974, H03348, BE161880, AW607780, T79392, AA305424, AI392810, AA375432, AW366425, AW753216, H95362, AI950113, H04030, AA375883, AW964468, AW975618, AW966389, AW966330, AW949645, D59859, C14331, AW959570, AV724520, AW964532, C14429, AF134160, AF101051, AF115546, AF072127, AX047063, A62298, A62300, AR018138, A84916, AX047064, Y17188, AX033851, AX047062, A82595, AR070327, AJ132110, AX027925, AR008278, AF058696, AB028859, AR087649, Y17187, AJ302649, AX021518, X67155, D26022, AX035434, A25909, A45456, AX028130, Y12724, AX020191, A67220, D89785, A78862, D34614, AX020190, AR060385, X82626, D88547, A94995, AR077702, AR008277, AR008281, AB002449, AR025207, AR062872, AR008443, A30438, I50126, I50132, I50128, I50133, X68127, AJ294956, AR066488, AR016514, AR060138, A26615, AR052274, AF260572, AR074139, Y09669, A43192, A43190, AR038669, X64588, AR066487, AR074136, AR074545, AB012117, I14842, AR066490, AR054175, AX015396, D50010, U79457, AR016691, AR016690, U46128, I18367, A63261, AJ287395, A85396, AR074141, D88507, AR066482, A44171, AR088705, AR008408, AR091537, A85477, I19525, A86792, A70867, AX042372, AR093385, X93549, AR092424, I79511, D13509, A64136, A68321, AR060133, AR060382, AF123263, AR032065, and AR008382.
HTXSN37	749	104937 2	1 - 4778	15 - 4792	AL519559, AL519558, AL527064, AL529172, BF526686, BG028577, AW361267, BF968057, AW242432, AI140620, AW511249, AW963605, AI718250, BG251031, AW003986, BE502055, BE743451, BE895620, BG034822, AW962766, AV682376, AA194091, AL527023, BE545462, BF433041, AW262697, AI949518, BE408503, AW298082, AW977283,

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HMUBT31	750	104946 6	1 - 2784	15 - 2798	<p>AL529514, AU117125, AU141494, AU138413, A1065140, AU138493, AU138619, AU137502, BE866979, AW749876, A1065091, AU128037, AW749892, BF971017, N99167, BF212188, AU128304, BF094612, AW074186, AW073330, A1434820, AW966409, AW272690, BF888339, AU129573, BE315355, AU127159, BF110128, BF888340, BE293259, AW119058, A1521964, AA488588, BF970200, BF207886, AL046614, A1261605, AA424119, BE467152,</p>

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HFPDO90	751	104964 4	1 - 798	15 - 812	<p>AA932194, AW179324, AI002307, AA663765, BE735168, AA491586, N41413, BF684301, BE407935, AA808457, BF512968, BE280480, AI299979, BE256643, AA770648, AA770650, AI343871, AW117478, AV751916, AI814515, AI299232, AA977173, AA740169, AA812938, AI494283, AA745845, AI190633, AV715190, AA843156, AA722697, AI129338, AI041107, AV753001, AI355668, F37023, AI363131, AV716996, AW005664, AA724428, AA308774, AW239094, AI084918, AA576396, AA315816, W73052, AI022229, AI266102, AA701641, BG054985, AA699317, AA884817, BG112117, AW161517, AA598700, BE382489, AA704484, AA809658, AI344352, BE386254, AA533144, AA947950, D54718, AA524092, AI709080, AW163628, BG036860, R97788, BE855958, AA707907, W81385, BF791890, BF685089, AI128584, D52875, AA114924, AI768222, BE728298, AV722473, AA491874,</p>

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HVVCB79	752	105010 2	1 - 2470	15 - 2484	BE747975, BE742186, BG251921, BF568088, AU131687, BE742275, BE889874, BE620141, BG250663, BE877012, BF568926, BE877476, AI088434, BE910200, BE907736, AU128113, BG035185, AU135252, BE897378, BG251285, AA621667, AI346645, AW263010, AI625220, BE909297, AI609518, AW276382, AW304172, AI858601, AW029222, AI608891, AI813425, AI827115, AW074235, AW082804, BG255684, BE889213, AI985831, BG254622, AA669865, BE880196, BG167056, AW514153, AW170309, AA618054, AW770869, AI795849, BE644838, AI963363, AI623888, AI683880, AI281027, BE350615, AI828889, AW192796, AW316981, AI818478, AW188700, BE874867, BG117904, AW183022, AV733886, AI144179, AW738239, BF842504, AI955571, AI128137, AA975350, AA523124, BF439985, BF737320, AI952102, AW339226, BF845854, AW337829, AI589258, AA781230, AI682815, AI348149, AI000902, AA931097, AI187264, AA745890, AI554320, AA161208, BF941366, BF737329, BF873834, AA284668, AI304724, AW369971, BE881723, AI591155, AI149294, BG252387, AW083724, AI274754, BE812907, AW026240, AA969848, AI750653, AI433158, BF431937, AA158743, AW607441, AI350439, BG164051, AW192073, AA157530, AW238819, BF845974, BE879598, AI357834, BF515581, AA464119, BE909634, AA883794, BE906788, AW176385, AW748239, BF739013, AA554892, BE880565, AW337353, AI910051, AW362693, AV733276, AW362669, AW062307, AI750652, AI188344, AI370440, T89676, BE049540, AW815717, R74284, AU155926, AW815722, AI766050, AW854759, BG250066, AW815687, BE179232, AI431334, AA100117, BG249995, AW662078, AA284669, AA583615, AW748238, AA973099, T29593, AI750507, BF874455, AA463985, AA192627, BE710195, AI273199, BE172625, F06065, BG007464, BG119139, AI269833, AI702408, R24159, AI583131, BE165427, AI624229, AA040727, AW338259, BF087461, T19421, AW362710, AA345817, BE176089, AI471394, AI686279, AI702510, AA894583, BE173387, R39975, AI589449, BE706368, AA886172, BE171903, AW081126, BE176258, AW362723, AW362732, AA195849, AI915757, BE175993, AI754103, R74194, AW749528, T19420, AA906982, R27515, AI932864, BE879632, BE812877, BF921111, R80161, R10151, BE714639, AI269834, BE813015, BF087509, BE714920, BF087520, BE714923, BE714915, AA039591, BF588735, BF909056, BE165002, BF825751, AA158183, BE876449, BE714916.

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HVVDX63	754	105025 6	1 - 2470	15 - 2484	BE615936, BE615456, BE615194, BE615842, BE615175, BE563187, BE615830, BE563326, BE616557, BF975225, BF968560, BF662845, BF974277, BE745255, BG258410, BE736088, BF308859, BF338536, BE736226, BF204392, BE614547, BE311934, BE616731, BE736359, BE614066, BF305803, BG111345, BF129216, BE615389, BE872603, BE616684, BF204544, BE736565, BE298823, AU139821, AW951126, AI356644, BE742184, BF183184, BE389115, BF304499, AA777030, BE298664, AW608326, BE301081, BF975931, BG166913, BF846393, AW815339, AI350705, AA429608, BE614732, BG248798, BF002901, AI857991, BG057397, AA234842, AA534828, AA789300, BE645797, AI074602, AW408426, BE735594, AA393482, AI276670, AI567492, AA479849, AI285621, AI275879, BE737486, BF912790, BF478059, AI095543, AI022763, AA766637, BE042491, AI208279, AW102930, AI032377, BE677333, AI784601, AA617779, AI628301, AI690885, AA397621, W39701, AA873371, AW269708, W39703, W81460, AW815569, AA613045, D82095, W45055, BE966085, AI275494,

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HNOJA87	755	105028 2	1 - 2924	15 - 2938		AL528169, AL535044, AL528170, AU131181, BE612946, BG105002, AU135757, BF056657, BG171550, BG033825, AI479941, AI355267, AU131478, AI189439, AU134843, BF667911, BF677918, BF672445, BG165663, BE079463, BE536085, AI955006, AW471118, BF244058, AV702059, BE221662, BG121124, AW382750, BF696174, AA927437, AW151212, BF107560, AU132059, AI819834, AW953778, AI609284, BF698990, AI859794, AW439324, BG030945, AU139994, BE612496, BF028646, AI206535, AA860250, AI831104, AI742145, BE813327, AW966808, AI956036, AL135266, AW367356, AL036155, BE876988, BG252879, BF126329, AI720945, AA994665, AI743900, AW993504, BE566902, AA664184, BF060653, AI687733, AA173561, BF799366, BE535901, AW379843, AI653816, AW367281, BG111300, BE567331, BE865972, BF572976, AW835282, BE694658, BF576110, BF132692, AI090217, AA629687, BF673893, AI149995, BG032487, AA081847, AU153674, BF092922, BF247055, AI299830, AI707818, BF670498, AW387918, BF675455, AU158254, AA946803, AA633514, AI147273, AA425997, BF840663, AU155668, AI276038, AI879555, AI804246, AW439334, AI567777, BF092879, BE388238, AU156261, AI880793, BF838803, AI735680, BF838796, BF793693, AI276669, AU152974, AI344762, BF840775, AI859784, AA642439, BE885399, BG170726, BE885385, AA261974, AV655055, H06260, AI095469, N31351, AI879172, AI123856, AA904011, AA400199, BF839703, AW379309, C75199, AA461594, AI150095, BF092870, BF840784, AA400360, BG170799, W45460, AI753004, W45505, BF240790, N21396, BE762409, AW862124, N27476, AA434134, AA774539, AA297332, BE762380, BF211905, BE566602, AA084443, BE702058, AI432961, AI439952, AA088269, AI039241, AA363799, AA687881, AA757780, AI149443, AA088377, AA425792, AA716770, BF092862, AI587227, BF092859, BF883837, AA666166, AI694247, AA037565, AA666252, BF922973, AW089309, AI174215, AI285541, AV697011, BE150667, H88419, BE775018, T40915, AW023229, BF840777, T83573, AA297916, AW020753, BE071395, AI186553, BF149317, AW675220, H95457, AI216872, R52751, C04099, AA363800, AI696248, AA806908, H66112, BE544848, BG015556, AI003224, H06261, C75103, H88359, BE932943, N93320, AI475318, AA298199, BE004156, AA101870, BF438939, AA298660, BE071333, R15217, BF753802, AA761472, AI572307, W25142, BF935223, AA894878, BF508277, AA297827, H66066, Z42814, AA173725, R52700, H88085, BE150666, H95456, W40496, AL535043, AA305188, AW364994, W40505, T85599, BG254457, AA516125, BG223547, AA065145, AA064868, T48493, AI300725, H88086, R78625, AW674695, C02996, AW496824, S74017, U20532, U70475, AF037350, R41655, R41655, W40502, W45509, AA032072, AA034284, AA099411, AA730470, AA954636, N86667, T10535, Z38956, AI866062, AW238674, and AW512933.

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HHFGN14	757	105053 6	1 - 3333	15 - 3347	<p>BE616112, BF792009, BF311929, AI039583, AI539772, BF797018, AV652556, AI911696, BF337750, AW328182, AL039415, AV709890, BF341677, AI924929, AI024590, AI799360, AL047238, AW151199, AI610202, AI354867, AW264758, AL047276, AI047492, BF725615, AW372255, AI620267, AL048362, AW242103, AW118263, AI860374, AA576772, AA464454, BF967859, AA534442, BF967317, AL048103, AW362999, BG059706, AA394278, AA579402, AI129572, BF741330, AW150084, AA905545, AA918638, AW072583, AI445594, AI042547, AA953112, BE044458, AA614134, AI089102, BE677448, BG059650, AI270652,</p>

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HTAIN76	758	105055 3	1 - 1664	15 - 1678	BE379181, BG248320, BE394344, BE304882, BE870646, BF342593, BE869659, BE395299, BE378779, BF347272, BE867897, BE304851, BE273083, BF034604, BF528940, BF348521, BE315252, BE394405, BE869523, H11951, AL039694, AI087281, R12830, BE273008, AW800353, BE741880, BE395735, AV695990, BE871000, H58758, BE410611, AA158857, BE273259, BE764627, BE740366, BE563582, H97070, M78038, BE255407, W30987, AA377820, BG251142, BG164164, BE744662, D31501, R06968, BF569502, BF569624, H22720, W78867, BF746701, BE874990, BF529027, BE781411, BG166165, BF688742, BE383214, BE394738, BF821988, AA179431, N59613, AF016903, AX011664, M64780, AR043380, and M92657.
HL YBO89	759	105070 2	1 - 1095	15 - 1109	AI681294, AI694310, AV733516, BE379742, BG167007, AI640172, AI074606, BG121897, AI670881, BE797790, BF940039, BE741302, BE742046, BG163770, AI858065, AI681393, BF984484, BE790111, AI400174, BF978941, BF973090, AI761953, AI910439, AI089029, BE048642, BF219348, BF670338, AI670873, BF247903, AW614075, BF245676, AV723510, AI991986, AW262850, BF542114, AW951106, AI457787, AI431584, BF213100, AV733272, BE866235, AA582224, BE293715, BE293433, BF197587, D56385, AI681691, AA459997, AA282970, AA632011, BF208865, AI769114, AA460091, AI091029, AI375169, BE958578,

	760	105076	1 - 583	15 - 597	AA283060, BF677506, BF382312, A1400216, AW044700, AA782032, BE090147, BF211105, N70581, W00474, A1129124, A1909822, A1624690, A1208850, W04882, AA614862, A1799764, A1633913, AW612235, BE866291, BE972765, AA987867, AA312107, AA916363, T29090, BE503032, BE694176, AA492546, A1373064, BE762975, BF224233, AW772272, AV655130, Z30203, AW015455, AA379970, A1368642, BE772285, AW243721, R96106, AA383564, BE720406, N72193, A1868673, T64539, D45517, C20558, A1130836, AW007571, A1928680, A1191010, N87559, BE702387, BE178819, BE566653, AA834469, BF910106, BG179242, AA372905, A1963630, W21362, T65962, N67416, N93012, BF154709, BE182933, AW364315, AA248547, AW771495, A1361096, AW271309, BF111624, X72964, U82671, AF080592, AL021127, and A1025418.
HMEKJ82	760	105076 7	1 - 583	15 - 597	BG037143, BF676815, AL527704, AU125963, BF028753, AW408138, AA952954, BE782652, AV763225, U26424, U60206, U28726, AJ001529, AF271361, and Z25422.
HOFNX17	761	105096 9	1 - 669	15 - 683	BG167328, BE565189, BE789424, BF243458, BF215528, BF973004, BE738025, BF244163, BF665298, AU135381, BE738188, BE567581, BF107150, BF971769, AA129310, BF686527, BF573009, BE882050, BF685893, BE889391, AU136700, BG118456, AU139656, AU137801, BF981334, BE883571, BE885625, AU138337, AU137564, AU137423, AU135571, BE885645, BE886273, AU138129, AU139930, AU135525, BE882507, BE889674, AU138813, BE885940, BF340792, BF219314, BG117049, AU137131, AU139496, AU136839, BE395726, BE613877, BE784318, AU122831, AU139272, BE890074, BE889354, BE393571, BE019690, BF672909, BF091549, AV756671, BE890028, BE889618, BE785202, BF790680, AU135762, BE883722, BE890010, AU137370, BF672419, BE869220, AU135495, BE888097, BF673438, BF029110, AU138607, AU137127, BF972534, BF246106, BF130804, BE883891, BE566362, BE787422, BE613536, BE746626, BG164494, AU117349, BF245980, BG121662, BG121427, BF980639, AU135221, BE890043, BG111978, BF245291, BG036076, BE777467, BG119474, BE886256, BE884608, BE888717, AW950757, BE439455, BF683998, BF107275, BF696507, BE613538, AU122830, AW366472, BF107233, BF979239, BF698764, AV757833, BF349437, BG250298, BF671133, BF037244, BF700315, BF672562, BF031223, BF084959, AW366471, BE865476, BF349429, BF217501, BE567062, BE567857, BF696793, AV716650, BF218154, AW366486, BF685662, AV714843, BF243102, BF217410, BE546162, AV757230, BF680563, AV717869, BE160289, BF242795, AV756534, AW366462, BF245428, AV734845, BE160277, AV716730, AW366477, AV757969, AV755997, AV761675, AV763314, BF245840, BF209181, BF242088, N79355, BF218920, AV756589, AV713049, BF572307, BE886383, BF214785, W80546, BF692781, C18232, BF107418, AU138502, AU134300, BF241022, AA348570, BE928764, AA852087, BE565641, BF243032, BF028253, N85304, AV747314, BF149206, AV714294, AV748590, BE884043, W07418, BG010285, AA095823, AA344036, R95461, X56649, U24656, I02238, AX004164, AX004167, X95108, E01979, and E04245.
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HMWDB39	763	105111 5	1 - 4711	15 - 4725	AL527816, AL533334, AL533288, AI132991, BE738228, BG034053, BE739552, BF984110, BG260492, AV755413, AW964005, BE560912, BG170764, BE891685, AW608050, BE277616, AW608063, AW608053, BF305030, BG164154, AW608056, BE069945, BF969279, AW876488, BE387593, AW386751, AW608048, BE883205, AW608054, AW373467, AW373475, AW876491, BE893625, BG032180, AL134864, AW608046, AW876498, AW373468, AW134836, AW876490, AW369558, AW836244, BG106325, AW386747, RG032622, AW373476, BG121952, AW369560, BE899662, BE566580,

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HAOSZ53	764	105124 6	1 - 1325	15 - 1339	<p> BG116754, BE742356, BG169741, BE737394, AL536737, BG035700, BF529756, AU129386, BF569781, BE906445, BE888309, AU126226, BG164594, BG112518, BG120249, BE390387, BE908319, BG104445, BE786862, BF529755, BF345037, BE272295, AU139884, BG032038, AW954508, BE385393, BF570296, BE536063, BE563539, BE886236, BE907551, BE733035, BF971649, AA292422, BF569789, BE874289, BE884694, AI346755, BG118789, AA477693, BF679397, AA526490, AI937163, AW007343, AI421549, AI186858, BG170016, BE884242, AU158211, W73114, BG163524, AW071883, AI921806, AA293715, AI677767, AA434504, AI635865, AA525971, AI245616, AI923979, AW673927, AI336339, AI982909, BF130225, AI087176, BE042450, AI566913, AW971941, AA430468, AA143240, AI042262, AI924324, AI283781, AI748862, AA405242, AL536736, W58109, AA434406, AA884449, AA477694, AA437352, AW583877, AI149950, W94126, BE150951, H30230, AA137204, BE150896, AA910258, AI569011, AI038000, AI351681, AA278265, AA50519, AA100354, BE242836, H30675, AI000002, W58219, BG261250, AA427618, AI640789, BE280007, AW965577, AI160137, AA480675, AW675091, AA402964, AI264832, BG008682, W05533, AI418798, AA143299, AI040251, AA002196, AA505527, BG107498, AA329214, N76134, AA631327, AA307966, AA864701, AA137267, H28117, AI208509, BE393546, R48090, R50206, AW080323, N31266, AI342175, R78352, AA054747, AI750670, AI620791, T66846, R26643, AA100305, T77309, AI199378, AI648478, F13345, AW583507, AA873206, AI520788, AA484092, AI625948, F36535, Z44621, T48631, AW000713, C04757, T60738, AA002067, R47978, AV707282, BF247764, T66845, H97612, AI470990, BG167362, R49672, T34246, N87910, H06178, AA514312, BF745589, AA394089, AA379308, BF247881, BF570302, AA627384, N36593, N22880, R50152, AA278732, BG014014, H90261, F30847, AU126761, BG009210, R32286, AW082510, AA054745, BF743515, AW271186, AA258044, BE925169, AW192387, AA429125, T08566, T06887, BF852854, AI567068, AI671642, BG163239, BF213477, AI263331, AI800171, BE907414, BF338002, BE622183, BF814447, AI800159, AW827276, AV758825, BF793324, BF525838, BG122101, BE880182, BE540578, BF038131, BG256592, BG032036, BF970449, BE047852, BF338723, BE876033, BF822127, BE874133, BE612681, BF529881, BE536058, BF032910, AW673679, AI273179, BG110517, AI620284, </p>

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HWLXZ72	766	105131 9	I - 874	15 - 888	AA355638, BE699743, Z42486, AI815234, AW663636, BF889196, W21832, BE565922, AL516637, BE958636, AA359471, BE175183, BF726418, AW577181, AA451951, BE090298, BF925269, AC005042, X81889, and AL159997. BE858219, BG033926, AI567888, AW268537, AW673994, AA024788, AI422260, N51863, BF033434, AW029206, AI087194, AI887629, AW058569, W80814, N51525, AL048448, AI333657, AV764407, AI280422, BG249887, AI277499, AW379304, BG114514, AA024832, AI005388, BE094103, C75026, AW515425, AI683577, AW243960, AI469624, AA394271, AI471534, AW510517, AI206785, W80907, AW969694, AV762395, AI886403, AI624585, AI963720, AL046409, AI284640, AW975981, BF668217, BF677892, AV761745, AV763540, AV763558, AW193265, AW973789, AV740801, AV760777, AI431303, BG249643, AW833862, AW965008, AV761362, AV760466, AL037683, AW500125, AV710066, AW969698, AI754955, AF330238, AV682003, AA610491, BF697673, AV763971, AV763633, AA581903, AL042853, AI270117, AV757607, AL138265, BF130107, AL042753, AW303196, AL138455, AV762645, AA988549, AW268300, AW472872, AV763670, AV762064, AW406755, BF793766, BG109996, AV757425, AV762397, AI801482, AW301350, AW969988, AW975217, AW327868, BE160727, BF827410, AV762959, AW979076, AW028429, AV763449, AW265385, AV728425, AV761489, AL119691, AA680243, AW973397, AW274349, AA587604, AW419262, AI370074, AA649642, AW518220, BE049139, AL048925, AV761106, AA720702, AV753570, AV758600, AA521323, AW979060, AV764530, AV760106, AV735495, AI350211, AI370094, AI334443, AV760207, AI457397, BF724372, AV762111, AA490183, AL040921, AV759329, AA521399, AI355206, AI623720, AV725423, AW975987, AF074667, BF915247, AV742057, AW957076, AV734666, BE049095, AI732120, AL037554, AV729809, AV764307, AA584201, AI281881, AV764329, AW970571, AI469968, AI133164, AA877817, AI473943, AV762505, BE139146, AW073470, BE276880, AV763354, AV738303, AV761403, AU137841, AV741609, AV742309, AV759274, AV759580, AW960468, AW408717, AW662543, AV762098, AW276827, AF074677, AI246119, AI357288, AW088846, AA491814, BF940837, AI307201, AV761843, AW502975, AI610920, F36273, AV760937, AV742337, BG059450, BF915722, AW503666, BG099291, BF241967, AW273581, AV760133, AW021583, AA482711, AW872676, AV764578, AW963497, AI696962, BE350475, BG104686, AV760057, AL079645, AL044940, AA682912, AV756693, AL043009, AI305547, AI613280, AV733830, AV762139, AV759518, AV758994, AI289067, BE042649, AI888752, AV729881, AI064864, BE672637, AV719316, AI053672, AW974109, AI249997, AI923052, AI754336, AV764228, AI076616, AV764398, AV761498, AA665330, AL110164, AL161426, AK025661, AC005041, AC005520, Z94721, D83989, AC005037, AL162424, AC006064, U67221, AC020629, U18391, AF015156, AL031311, AF015149, AL137918, I51997, AF015148, AC004841, U18395, AC011464, AF015151, AL121905, X55926, AC011510, AF077058, AL049780, U57007, X55925,
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HKIXH35	770	105188 3	1 - 3242	15 - 3256	<p>AW205447, AI065034, AW964935, BE968469, AW134872, N30643, BE219501, AI742578, BG057325, AI891033, AI309774, AI866497, BE272511, AW964934, AA243860, AW961272, AI819316, AA446193, AA418213, BF448128, T54100, AA863283, AU147645, AI498023, AW014482, AW612324, AA603772, AI631853, BF877539, AA565242, AA418042, AL049129, AW136164, BF838315, BF838320, AA044154, BF877514, AI680841, AI538964, BF840434, W90813, BF877510, BF877488, N35931, AW957569, BF877537, AW149493, AW149682, AI819933, AI400119, AI017775, BF877538, BF877520, AI004359, BF877487, BF055085, BF838185, AI138809, BF854371, AI765994, AA635018, AA436048, BF877496, AA420986, BE048276, AA233090, AI075147, BE884809, BF877493, BF877500, BF877532, AA435951, AA021446, BF877527, AA595875, BF889138, T10241, AI248595, AI124527, AI435340, AA425954, AV721808, AI245399, AA401648, AA305569, BF877490, AI937178, W00813, AI082756, AA773447, BF877485, BF877492, AA469970, AA569683, AI400194, H53921, AA398438, AI493355, AA680167, AA446192, W90757, AI613081, R51002, BF840016, BF877534, BF877530, N37077, H69187, N69260, AW130125, AI561127, H66544, H79381, F35822, BE908093, H70086, AA350996, AI689707, R26487, H53600, AA326184, AI918254, H69188, W01943, AI400338, AA044062, R23981, BF877531, BF877484, AI914265, R23807, F26489, T10240, BE767903, R00842, AA283051, N68500, H66130, H69671, R89898, AA009690, BE924972, AA569594, AI668851, BF838277, AI245534, AI538860, BF877498, R52123, AA013487, AA378268, R45600, AW889953, BF090500, BF090509, R93201, BF840730, BF838191, AI479678, R14613, T54193, H79270, H92040, AU121916, AI369377, AI702849, BE698298, BE904920, BF830432, BG026746, AK022302, AB023216, AC007707, AL033376, AC026168, AL022401, AC007158, AL109754, AL031656, AL049175, AF258546, AL163283, AL390965, AC006041, AL033353, AC006972, AF064863, AC011751, and</p>

HHEBJ92	771	105190 3	1 - 4312	15 - 4326	R33063. AW971745, I27320, AB026436, and AR080280.
HPTGB84	772	105195 3	1 - 853	15 - 867	BE379478, AL519940, BE736832, AI188527, BG110885, BE737145, BF971627, BG113959, BF314524, BG109261, BF055550, BG109783, BF127747, BE786146, BG252959, AI149525, BE621303, BF795273, BF313208, BE885912, BG034281, BF307357, BE867948, AI806664, AW275083, AI061604, BE270221, AI870967, AW275075, BF971533, BG112482, BG114864, BE785489, BE546390, BE378249, AA497057, AI138600, BG054813, AW964838, AV756448, BE855445, BE536788, AI479952, AI266262, AW673935, AI185743, AA830546, BE620453, BE621749, AI802437, N28845, AI034238, AI933142, AW268994, BG165623, AI418408, BG253819, AI742943, AW956695, AI096748, BF344884, AI202120, AI147114, AA542933, AA497134, AI141476, AI199331, BE395676, AI150814, AA410970, W79405, AA009751, AA002106, N41909, AI333142, BE857221, AA622772, AI144338, AA022637, AA808093, AA504401, W79518, AI810638, AA761599, AI417395, BG260133, AA568559, AI023970, AI095050, AI209035, AI362792, N31052, AI498037, AA846602, BE620682, AI570460, BE965683, AI161081, AI278848, AI310326, AA443683, AI075863, BE831944, AA505571, BE831950, AA419552, AI090272, AI187011, AW675097, AA594429, BG255846, AI934684, AA312223, AA143434, BE831941, AA009752, AA005006, W95427, AA345829, BF590209, AA035194, AA576272, AA954873, AA765429, AI797328, AA143435, AA005054, BF765520, AA022648, W24400, AI242550, AW150207, W24390, R01078, AI080521, AA447070, AI125782, AA429368, BE831899, AV693940, AW083314, AA157417, AA235273, H58468, BE831943, BF325592, H47561, AA384046, W95554, BE831900, AA765682, AI018452, R68502, N93667, AA459809, AA002105, AA737941, AA341512, AI018031, AA806519, BF475991, H47562, AI351234, AA968607, AA449139, BF111426, N92318, AI354927, AV743970, W24428, AI219347, AI887041, AA427981, BF838748, AA035193, AL519939, R01805, N93676, AW084368, BF359878, AA504139, AA704246, W86336, BE906008, BE810959, AA877686, AF151871, AF090922, and AC005740.
HVCCD05	773	105198 3	1 - 955	15 - 969	BE219057, AI084904, AW135444, AU139879, AI937665, N87764, AA974074, M89914, AR029030, I36272, M82814, M38106, M38107, M61213, L10370, AC004526, AC004222, D45201, M60915, D30730, M82826, M82825, D30731, M82824, U17683, M84131, U17684, AF130776, AF011748, AF031610, U17685, U17682, U35694, and U35693.
HPYSC40	774	105215 8	1 - 822	15 - 836	AA779751, AA476904, BF056494, AL047797, AA436220, AA402723, AA291495, AA293088, AI151391, AA452764, AI188355, AI086276, AA477016, AW296294, N30652, AA706816, AA436221, AA404631, AA433965, AA293479, AA235001, AA478226, AA495907, AI276581, AI246448, AI420208, AW044154, AI080180, N42277, AA252967, AI474212, AA463721, AI274168, AI092818, AA452585, AA495908, AA402883, BF446967, AA854990, T28299, BF507811, AA635664, AI420297, AI742059, AA434011, AI092114, AA405395, H52337,

HDDMT56	775	105226 1	1 - 940	15 - 954	<p>BF511864, AA430486, AI826712, W02698, H52240, BF509153, BE858944, AI369971, AI804952, AL048051, AI597661, AA404733, AA479874, BF589533, W25651, AI273712, AI420511, BF510668, AI418020, AA479731, AI865541, AA228076, AA421247, AA421246, AI656233, AI826968, J04129, M61886, AL050169, M34046, AF021261, and AA479738.</p> <p>BE791889, AV717926, BG111059, AW026224, BE731340, AW129431, AW044302, AW044311, BF969263, AW026502, AI024363, AV764439, AV755780, AV703541, AV756180, AW005536, AV756181, AA044591, AV717648, BF698603, AA044836, BF185808, BE858602, AI884653, BE566092, BG236392, W73840, W72164, BE568051, BF446110, BG030132, BF432321, BG231607, W74588, AA584411, AA044721, BF438576, AW361071, AI359202, BE695891, BE045437, AW968454, BE857732, AW952892, AI400180, AI127248, AI361026, AI351761, W73696, AI361044, N93769, AW853077, AA188813, AI346887, AI873700, AA476929, AI564814, AI148800, BE960901, AW576052, AA844073, AI580492, AI359751, W15164, AI871309, AI159826, AI090121, AA459134, N56635, N92789, AI125882, AA936153, AA477040, AA844279, AA627857, AW026355, AI285239, AI024076, W20518, AI193641, N95574, AA130015, AI041348, AV756064, W07735, AV708855, BE728941, AA410661, AA706702, AI359593, AA722839, AW004870, AV707248, AA829863, AI202724, AI276819, AA431145, AW978868, AA432164, AW627741, AW592913, AI199842, W39004, AI193714, W39225, AA291941, BE972734, AI056225, AI344438, N80763, AA988362, AA383031, R99845, BF130957, AA445991, N78715, AA627324, AI500185, AI205678, AV653961, AA864928, AI589231, AA309919, AA293627, AA962487, AI474384, N29679, AV660336, AA130014, W24818, AV698101, AV660285, AV660175, AI077593, AV660215, BF351943, AW016040, AA651617, AA009876, C04433, BE766092, AI342842, AA747913, AA446267, C04962, AW020834, R23666, AA355416, C02690, N92536, AI561151, H56634, AI051799, AW407061, AA111947, AI420808, H99820, W07552, C05537, N24516, AI474400, AA280534, BE843719, AA315628, AA383032, AA382428, AA009528, BF740125, T80744, AA749010, N87803, BF208266, AI139832, AA085812, F26702, C05473, AA044811, N49380, T84122, AI867943, AA747825, AI687396, AA832270, AV650894, AA565864, AI083802, AI146601, AA342414, BE350230, F35829, AA731123, N49470, AV718225, H30789, AA235564, AW999222, BF242556, T89356, T80634, AV736105, AA937994, AI445396, BG165709, AV736287, AA731103, C01741, M85658, AW877209, AW979127, AL134524, AL119324, AW969680, AW975037, AW975002, AW969816, AW975031, AW972845, Z99396, AW971975, AW974801, AW979238, BF868697, AW979204, AW975876, AW969673, AW975952, AW972292, AW976024, AW975019, AW979002, AW971403, BG058418, AW975632, AW975032, AW975954, AW975965, R99846, AW974786, AW975154, AL119457, AW976023, AW971968, AW975628, BF868687, AW973717, AW974964, AW972867, AW969643, AW975027, AW979098, AJ250393, AF110775, AF161497, AJ250394, AX017873, AR066494, AX046357, AR060234, AX030435,</p>
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HVVAW02	776	105255 3	1 - 872	15 - 886	<p>AJ279014, A81671, AJ251859, AR023813, AR064707, AR069079, AR054110, AB026436, AR096546, AR096545, and AI285003.</p> <p>AL537587, AL529658, AU123248, BG111713, AL536888, BF528711, AU137828, AI421201, BE904707, BE791254, BE745009, BG109317, AI570622, AI570004, AI989579, AW961469, BG108425, BF383127, BE176810, AI833038, BF696193, AW468544, AA779618, AA594978, AW009553, AI560971, BG230611, BE264327, BF589342, AA700346, BF031165, AV705472, BG119892, BE551429, AA236469, BF217607, AA975622, BE855531, AI241179, AV724761, AV705812, BE176927, AA232654, AA425074, AW304107, AI089284, BE884892, AI368096, BF697812, AI348181, BF668864, AI186811, BF817290, AI766352, R35279, AI142922, AW886555, AA584043, AA974548, AI124517, AA282137, AI400118, AW297715, AI057075, AA701672, BF154541, AI272148, AA772928, H53622, R53868, AA514023, AA531591, AA316638, AI333059, AI924107, AA641382, AW886216, AW886217, H74214, AV720966, BF060965, AI818718, AW934891, BF737115, BE833950, AI367803, N70079, H53661, AW886135, AW886133, R66643, BF737112, BE833954, BF090575, T87908, AA971632, AA703463, AI864207, AU124815, AW959681, N62470, AW888886, H16343, AW998773, H60947, F15800, AA533438, AA332062, AL039198, AA310143, AW360979, AA614390, AA621437, F11167, AI937689, AA332239, BF245833, AI538144, BF932809, AV722305, BF760088, AA665032, AA365208, AI630339, AW768928, H73698, T88002, BF760401, R20909, AI830513, BF575067, BF932781, BF887248, BE763671, AA365209, AV702237, BF760085, AV704383, AA344255, AW372989, AA363457, BE767071, BF216049, AA216158, R50400, R47763, F07468, N79190, R67362, N73190, BE242768, BF247762, BF764294, BF670200, BE695812, R20797, AW902331, AA361116, BG231332, AA234237, AW373134, AW834746, AW934899, AW888862, AW386061, AW888860, AW373135, AW373133, AW934906, BG033243, BF129853, L12387, M32886, X04656, AC005075, AL121872, AC013412, and AC003991.</p>
HOGCS42	777	105255 7	1 - 1746	15 - 1760	<p>AL526995, AU133713, AU122264, AU133716, AU133898, AU133901, AU121966, BE792903, AU141449, BE786350, AU133817, AU136746, BG254161, AU133578, AU133887, BE907881, AU121817, AU133655, BG260814, AU121969, AU133752, AU136516, BG179180, AU133916, BF038418, BF037422, BF036516, AU134354, BE734836, AU138430, BE873066, BE875603, AW844114, AU133630, BE616872, BE880804, AU122380, BE871117, AU134380, BE871864, BE902820, AU134369, BE536853, BG256045, BE304643, AU133618, BE787818, AA523290, AU147972, AU138507, AA700004, AI927220, AW170580, W74492, BE812430, BF446247, AU147690, BE870378, AI859845, AW935041, AI991311, AA522795, BG254485, AU136509, AI081052, AU155374, BF681403, AA535079, AU159009, AI400364, AI335984, AU147886, AU155390, AW193221, AW874638, AU155077, BE564185, AW170345, AA622540, AU155064, AI273767, AW474974, AW770097, BF445088, AW168283, AI188508, AA565989, AI559433, AI420481, AI246782, AU157642, BF182989, BF825787, AW815382,</p>



HAZAA59	778	105259	1 - 2872	15 - 2886	<p>BF110949, AW662920, AI928146, AA157892, BG000738, BG254948, AA314960, AW815398, AI281336, AU155007, BE740807, BF447199, AU155054, AU133955, AW194453, AU154870, AA838633, AA844471, AI401064, AW589514, AW844815, AI949231, AW815552, AI911649, AI268908, AU154943, AI874198, AI186144, AI819846, BF7422353, AI276313, AI874344, AI963847, AW193220, AI863584, AW167101, AW168206, BE930559, AA149417, W79089, AA506616, AI564546, BE819070, AI036495, BF987328, BF435486, AA434123, BE903940, AI560666, AA149738, W02467, AA948146, AU155067, AL526954, C06165, AI660464, AW167111, AI961910, BG0002911, BF476318, AI343369, AW194388, BF987337, AI567796, BE745379, AW009339, BE673504, BF446395, BF990584, AA434059, AI739607, AI280032, R48300, BE840036, BE840048, AA551656, AW167849, AW513272, BF001751, AI346572, AI923100, AI005290, AI091394, H93341, AA295491, AI588982, AI819915, AI950029, AI991855, AI347074, AI347076, AI660868, AW874110, AW374558, BE930558, AI682624, AI348165, AI949885, BF001991, AW516096, AI347071, AU154878, AW014104, AA582757, AI860565, BE840202, AI222884, AI861959, BF109128, AI283186, AI347501, AI305833, AI031766, AI346386, AI346944, AW189088, BE840244, BE048493, AI032425, AW510456, AI283162, BF569270, AI347072, BE840045, BF001523, BF111772, H27323, AI214245, AI346606, AI743195, AW015201, AI347060, AI346569, AW572261, AW275383, AI281140, AI346475, AI743978, AI274133, AI738882, AI347930, AI273374, AI738627, AI991114, AI097004, AI144005, AI304544, AA569935, AI281141, AA157596, U46417, AI274318, AI285074, AI346274, AA293207, AI336454, AK026651, D88492, AX014904, AB000714, AF007189, AF095905, AJ011656, AC004643, M74067, AJ130941, AI249735, EI3998, AL049423, AX040974, AX040958, AL133655, U30290, AR005195, AX041002, AL133607, AL133084, AL133070, AL133053, AL133051, AL133049, AL133076, AL133608, D87953, AL122101, AL133015, AL133057, AB047883, AF002985, AR055519, AR015970, AR034821, AX015526, AF114168, AK026973, AL122049, AF126531, AC004213, RI2121, T96099, R05961, R05962, R36883, R48403, R50075, R50076, H13937, H27324, H27350, H44304, H93844, N72688, W21446, AA149303, AA149402, AA430665, AA427468, AA492185, AA492265, AA505980, AA506754, AA506660, AA563652, AA595940, AA622827, AA574043, AA574044, AA863314, AA864657, AA886772, AA284679, AA293130, AA293763, AA411444, AI014860, D25752, T24860, AI243957, AI540462, AI217716, AI537131, AI669863, AI783467, AI872874, AI873728, AI868181, AI870550, AI922594, AI950563, AI955566, AW080295, AW237322, AW263601, AW589341, and AW662680.</p>
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HPDRP02	779	105272 8	1 - 1627	15 - 1641	<p>BF792683, AA742380, BE747165, AI640393, AW291686, BG256497, BE797929, AW501561, AW238234, AA779079, AW072857, AW265059, BF082050, AU148480, AU148533, AI095508, AI521859, AW007816, AW967228, BG111166, AW303269, BE349471, BF727387, AI419949, AA583165, AA830903, AA902344, BE178392, AA164560, AA165351, AA115679, AA910901, AW517649, BE094915, AA522954, AW261875, AI266478, AL121170, R67520, AW732752, AV720970, AV724378, BE560664, BE095053, BE798319, AW301363, AA861526, BE819560, AA843805, AI344782, AA136284, AA136370, AI370752, BE769910, AI581482, AI457804, AA522981, AI472114, BE465550, BE397643, BE168476, BE559989, AI567954, AA627761, BE560151, R67521, AW802788, AA721354, AA382118, AI082499, AA594371, AW894813, H11166, BE243594, AW402441, AA176973, R12181, BE819609, AW304340, T86838, BE268790, AA813170, H30325, BE819617, AA989131, T86646, AA853076, AA884215, N31745, W88983, AA847803, T89672, AI016692, AI597612, R82770, BF326385, BF091014, AI923937, AW978866, R18815, AI610985, BG150781, AA382117, N31747, AA911165, AW005216, AV708774, R02579, AI015362, AV736252, BF094193, BE094845, H00619, AA356930, AA313171, AA889532, BF379275, M78445, AI972896, AV689590, AI401763, AV693969, BG153432, AI253384, AI680033, AW137075, T55310, AI168711, AA831855, AI636189, AA127463, AW629303, AW795264, AA621095, AW501557, C02209, AA742347, BE244214, BE775218, AW803711, AA832091, AW803701, AA837134, AW977744, AA828368, BF515601, AA134603, AA832309, BF885186, AI735697, AA333706, H18765, BE244244, BF885383, AW955785, BF744241, AA133171, BF037823, BF985805, T08902, BG104722, BF367289, AA614842, AI867837, AA975955, AI797407, AW854176, BF326971, AW854256, BG002833, BF744246, AW854253, BE177869, BF744247, BG167575, AW854052, AA853075, BG176797, BG122275, BE560729, AI589698, BG177029, H30263, AW407903, U63289, AF267534, AF267533, AF248648, AF267535, X61451, U28424, and AF003923.</p> <p>AI127173, BF689120, AI833019, AI299951, AW950053, AI796694, BF569958, AI207840, AA905294, AI677681, BE395678, AA595291, AA595194, AA496648, AI185277, AW514815, AI267900, AW172940, AA541745, AI672913, AI191324, AI457407, AI749865, BE612917, AA541667, AW474854, AA932637, AI459873, AA936956, BE501657, AA600983, AW008141, AI813527, AA437336, AI813526, AA427585, AW970526, BE391199, AI769112, AI188975, AA706831, AA954972, AI521390, AI812098, AW170020, AA595356, AW068546, AA976022, AW001580, AA600270, AW130267, AI587132, AI635503, N39646, AA564063, AA995165, AI750626, AI080529, AI707459, AA743928, AA599926, AA447630, AW967399, AI749142, AI371879, AA552327, AA525853, BF055306, AI038815, AI048329, AA834008, BE391165, AA541782, AI189885, AI707522, AI086832, AI436627, AI304521, AI087181, AA481901, BF725693, AI832585, AW518701, AI749608, AI076047, AI797199, AA437391, AI025561, BG118128, AI301508, AA434030, AI288407, AA534237, AI367324, AI222841,</p>
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HMALJ21	780	105287 4	1 - 2012	15 - 2026	AL519388, BG259676, BE277678, AW205482, BE869625, BF316260, AI277584, AW664331, BE622336, AL519387, AW662197, AW136690, W52642, AI250913, AW138798, BF740532, BE677906, AW138820, AW608260, N35182, N24280, BF768395, BE144069, BE905906, AI632485, AI655964, AI350527, AI632508, AA454785, AW088958, AA351397, T79897, AI095945, AI001211, AA116116, BF948656, AI695261, AI453666, AI467878, AI368974,

HLVAR61	781	105303 7	1 - 769	15 - 783	<p>AW243613, AA928482, AI311394, AI308188, AI583510, AI023282, AA704892, C01811, AA522882, AI915997, R37609, AA116117, T39427, AI811517, AA255430, H45848, AI278218, AI090187, AW130406, AW665426, N23397, AW192328, AI094832, AI582197, BF197385, AI631532, BE672148, BE858838, AA454733, T97925, AA036929, AA180050, AA622644, H98713, AA987548, BE669564, AW368961, W51992, AK026046, AL008734, AX022320, AF131840, and AX022322.</p> <p>BE539148, AV701008, AV725116, W46534, BF208088, BF382571, BF239279, AV723526, AA156901, AV655710, AI539186, AI418461, BF590840, AW954196, BE439596, BF571987, AI697932, BF673830, AI685500, AI015531, AA442557, AI949700, BE612620, AV701346, AI690126, AI807479, AA743893, AA427395, AA706606, BE091133, AI334957, AI093104, AA634337, AI247843, BF030479, BF029431, AI150112, AI912124, AI129790, W46170, BE466890, AW300000, AI280605, N32003, AA911924, W37946, AI689978, AA428154, AA628163, BE771950, AI268698, AA970845, T47498, N26101, BE004235, H82110, AW328343, W37884, H97954, BG114369, AI935379, AW014961, T47499, BF333867, AA229994, AA303594, W05782, R24400, H82111, AW361303, AA569753, AA156856, N71934, R53408, N77889, R02637, R24401, AA878435, AW168612, R01695, T34016, N36740, AA026193, AW661659, AA026265, BE394279, AA670493, T24763, AI245496, AA090760, AA029702, AA610033, AI089660, AA994488, AA860434, AW473074, AA769881, AW891864, AI814435, AW891684, AW891868, AW827103, AI560099, BG164558, AI921248, AL513991, AL120853, AI174394, BF816037, AL513999, AI699865, BF965789, AI637584, AL041772, BF970652, AW079159, AI677796, AI824648, AL514701, AL514867, AI627988, BF856017, AL513631, AI926790, AL513597, AI433157, AI702073, BF812961, AL513907, BF856052, BF812938, AL515413, AI611743, AI610690, BF904265, AL514087, AW198090, AW167228, AL513779, AW026882, BF812960, AW148963, AV735485, AW150578, AI564719, AW983691, AL513937, AL514493, AI554218, AL514627, AL513577, AI537303, AI815232, AI889376, AI830263, AL514983, AL514721, BG108324, BF032768, AI633125, BG116387, BE886728, AW827289, AI570884, AI619502, BF970731, AI499285, AI886753, BF885000, AI620284, BE965621, AL513947, AI478123, AI073952, AI783861, AI802542, AL513553, AI045500, AL514025, AL514473, BG114104, AL038445, AL037454, AA287231, AI687362, BE620084, AL119791, AI697304, BE879906, BE011885, BG109221, AI919345, BE910373, AW073865, AW104724, AL513977, BF526020, AI687065, AL514035, AL514879, BG108288, AL514359, AI587114, AI249877, AI590530, AI494343, AV764180, AI288050, BE965121, AI567360, AL513807, BG257611, AV714485, BG180996, AW163464, AL042544, AL036274, AI536685, AW983703, AL036631, BF868489, AW102924, AL514205, AI499191, AI539153, AI311926, BE047852, BG110946, AI249497, AW193530, AW073270, AW057937, AI682971, AI819326, AW148408, AW161579, AI801325, AW235745, AW051258, BE621256, AW021373, AI610671, AL514919, AV753074,</p>
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HLTCQ80	782	105316 4	1 - 616	15 - 630	AL529504, AU130820, BE870204, AW594213, AA812811, AI685300, AL041426, AI339360, BE881085, AK001602, AF064801, AK025043, and AF064800.
HDTDU67	783	105317 1	1 - 1130	15 - 1144	AI701918, BG254806, AA921832, AW007649, AI620402, AI831129, BE048758, AI985974, AI000597, AI683794, AI669164, AA599078, AU150782, AI290796, BF514603, BF588503, AA604667, AI022848, AU155576, AU156459, AA747513, AU155795, W52775, AI469233,

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HMABL01	784	105317 3	1 - 2329	15 - 2343	<p> AU118733, AA133356, AW955812, BG179918, BF346203, BF035771, BF315899, BF340645, BF980190, BE908405, BE872773, AL520003, AU133662, AA142950, AW341704, AW959125, AW964605, BF341489, BF026115, BE090318, AI088930, AA203456, AA203423, BE388728, AW024576, AA156233, AA947947, BE938716, BE938720, AW516068, AW205784, AL521974, BF026389, AW167067, AA524710, AA134927, BG170818, BF593774, BE844167, AW602766, AI148416, AA131895, AW953840, AI669635, AI140196, BE676573, AI423226, AW172419, AI688875, BE276606, AI805259, AI160437, AA843966, AI198201, AU154898, BF939228, AI581278, AA101841, AA481460, AL525234, AI129812, AI143756, AI089697, BG107901, AA903576, BE742999, AA653715, AA769542, AA133279, AI830223, W32401, AA150657, AA902487, AA693922, AI469046, AA157880, AA137147, AI418897, BF345936, AI130933, AA101842, AA262659, H40194, BG166486, BE350057, H97222, AI968955, AI143842, AI336099, AA039253, AA255736, H48306, BG168190, AA917580, BF979465, AU156883, AA149701, R63790, AI168042, AI445253, AI683065, AI660887, AI144109, AA325637, BE866802, AI004914, AI146551, AI244626, AW071895, AI144033, AA147496, AA158718, AI352341, AA807889, AA385998, T96136, H66086, AA545762, AW051130, W70004, AI682439, AV763868, BF111554, AI268558, H49297, AA404725, H46879, AA931407, H46311, AA157442, AI199564, BE797631, AA932838, BE676624, AI002537, H23848, AW083925, AW273768, AA385999, AI287895, AW602750, H74233, AI092969, AA324813, H67593, AI421144, AI143667, AA180092, H23771, AA740145, AI924689, C03401, AA364223, AL521975, BE350872, BF735158, R63735, BG055955, H48214, AA131896, H18903, AI914970, AI261752, AA317352, H46253, H23823, AA627126, AA978020, AA861149, BF033702, AA707916, W70005, BG222845, H23923, H92407, AA744572, AI074823, H52841, T96931, AA321756, T85202, H18904, AA831676, R11670, H52840, AA835679, AA521101, AA384273, AA150534, T97039, AI566104, AA143083, AA247331, AA332414, AA627814, R12276, AV742073, BF945419, BE075792, AW959127, AA463784, AA135043, Z45479, AI476798, BF931904, H01034, AA804787, AI660879, R24697, AA878699, F16852, R36164, H66041, H46299, AA873015, AA973939, T82963, T99700, N55597, R77516, AW339430, T84321, N70225, BE180904, AA137075, T56205, AW194201, AW117276, AA729420, AA699638, BF591256, R62543, AI351776, AI619564, T96218, BF332530, AI611192, T90449, AA371997, H23741, BE093087, AI961898, H00617, AW903022, AA906614, H01783, R62542, AA180091, H92625, AA886983, AY007103, AK024338, AK001782, AF151029, I25654, AF056191, AK025084, U80742, X72889, Y11587, AL137527, AL122098, I89947, A77033, A77035, AF118070, AL157431, AF061795, AF151685, AR038854, AF155221, AL389939, AF158248, AF008439, AB033881, I48978, AF067728, AX042059, AF314091, AR011880, AK024538, AK026480, AK026947, AL137459, AK027160, AL389982, AF119899, AK000647, AF116646, AF113677, AL050172, AL137294, AK024588, AK026959, AF111851, AK027213, AF119909, AX040974, AF116639, </p>
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HACMU05	785	105323 6	1 - 2888	15 - 2902	BF343552, AL530409, BE746094, BE735802, BF062326, BF035716, BF974591, AI860688, AW510818, AW301062, BE617865, BF037490, AW590960, AW024302, AL530410, BG261229, AI866462, AW172916, BE551941, AI768917, BE617409, AW070609, AW593651, AU118967, AW369001, BF759621, AI298317, AW629258, AA827780, AI761873, BE743439, AL121507, BE246022, AW134595, AI336551, BE048247, AI961076, AI214155, AI084078, AA279294, AV737033, AA824473, AA584377, AV739719, AA676851, AI540805, AV744481, AI905879, BE245495, BF315596, AV739119, AW978944, AV743283, AW137331, BE245620,



HOVDF79	786	105336 9	1 - 2312	15 - 2326	<p>AV741738, AW337861, T86351, AV736059, AV737283, AI400906, AI262476, AV744379, AV740863, AI351126, AV735776, R61463, AV740456, BE245289, C00577, AW291188, AV740613, AA992344, T86350, AI445438, BE563207, BE741897, AA279319, AW579529, BF755872, AA480638, AV743645, AA380574, AV738877, R61464, BE713066, BF975786, BE246717, AA917981, BF304224, AI560536, AV739753, BE245259, AV737670, AI188007, AA992330, BG015403, BF901066, T11662, AB002405, AK021738, AL096808, AI652525, and AI978562.</p> <p>AU119377, AI129991, BF109705, AI003504, BF970648, AI978786, AI942472, AI923428, AW157102, AI337325, AW305224, BF439855, AL043698, BE889977, AV708983, AI949346, AA779822, AW662369, AU145736, AU139589, BF336739, AA902404, AW450949, BE552252, BG054963, BE048768, AI183371, AI422983, BF478172, AI085398, AI624398, BF438641, AI743061, BE465292, BF797246, AW182966, AA653306, AA702436, AW408332, BE566450, AU145016, AW166329, AU154587, W73118, AI028580, AI088059, AW002495, AU158347, AI334137, AI432305, AI803106, AW104041, AW304421, AU158692, BE670915, AW238419, BF327057, BE253783, AU147362, AI684123, AA308483, AI034255, AI088358, AI095015, AI146768, AU149082, AI378977, AI718426, AI754081, AI002387, N51414, AI268360, AA810276, AI830449, AI151401, AU150212, AI375778, AI446077, BF115834, AI950139, AA779348, AU153375, W86275, AI088406, AI263017, AI094353, AI140293, AW803630, AU158571, W31856, AW606728, BF433824, AU159526, AI439425, AI745558, AU158090, AI057081, AU153897, AI160952, AW771340, AI248226, AA699336, AI370781, N50861, AI805789, AW080680, BE670404, AA284436, AA234679, AU157446, BF033408, AU150130, AA889342, AU149164, AA490361, AI800855, AI769864, AL043697, BF688126, BE503532, AW444986, AI266732, AW368126, AW368120, BF827396, W73138, AW873365, H82394, AW368023, AW263912, N80171, AU156841, W78224, AI803688, N34343, AA642583, R99060, AA962061, AA807778, AW772055, AA678399, AA225086, C04873, AA679450, AI783666, AI473702, AA628546, BE775239, BG059529, AA811471, AI909121, T34767, AA825759, H08335, BE178051, AA831866, AA768970, AI968631, H17949, AA292712, T08453, T16462, W81516, AA234752, AA225217, R62711, BE177869, AA247183, AI915047, W72185, AA362699, H17164, AW505122, AA709427, AI367965, AI367964, AW193572, R59387, Z38714, BE080939, AU118459, R44755, R99257, AA853740, R52397, AA099272, R99245, AW467886, AA480287, AW088296, T33541, T56948, AA098893, F02426, R63669, W81632, AW089041, R99049, AI933597, AI302303, W86309, AA917412, AA056449, AA301282, AW363137, AA532412, BE926640, T16601, BE844238, AW503719, AW196019, AI434011, BF082587, AI241010, AA978275, AW378894, F06155, BF733750, T35240, H12819, AA093937, AA095746, AL118913, N56371, W70334, AI588883, AA781204, BE708492, W77820, AV702009, BF762691, BE817855, BG058239, BF089716, BF692584, AI889870, F05792, AF315592, D43951, D87078, AF315591, AF315590, and</p>
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HVVBJ54	787	103354 7	1 - 2412	15 - 2426	AC007041. AL532654, AL530889, AL534020, AL537526, AL530888, AL525712, AL521657, AL525763, BE793935, AL521656, BE796453, AU119567, BE792417, BE798441, BF725408, BE900395, BE790588, BE793564, BE795941, BF347286, BE799071, AL523403, BF345734, BF346676, BE792463, BE732867, BF797369, BF311686, BG035268, BF346326, BF529548, BE274709, BF129147, BE891949, BF529831, BF966181, BE293960, BE797363, BE908606, BE618435, BF348249, BF966958, BE280000, BF205224, BF220163, AI937018, AI217946, BE392205, BE257725, BE277463, BE276125, BF219775, BE898646, BF306302, AI889778, BE280487, BF338663, BE253082, BF527536, AI978994, BG115271, AL535081, AW027567, BE266931, AW673680, BF674591, BE790632, BE266572, AI879285, AW247302, BE265342, AL037238, BE266085, BE266613, AL036056, AL523404, BE886202, AW088030, AI828025, BG108959, BF531099, BF530034, AW249680, BF105015, BF124927, AW249988, BF529605, AW005767, AW245509, AW674591, BF315475, BE388894, BF346800, BE410333, BF314878, BE018407, AI879042, BE018400, BF348246, BF435973, BF957807, BG231802, AW245215, BE881900, BE737050, BE840198, BF688787, AW593278, AW245544, AA601523, AW263255, AW250569, AI879665, AI762319, AI205160, BE840221, AW245953, AI460339, AI354877, AI659964, BE784938, AI205136, BF526267, AI362863, N73458, AA191613, BE618669, AW662301, AI084870, AA707023, AU128532, N64677, BG106050, AA807665, N80110, AI333146, W29019, AA911087, AI829869, AL529946, AW161842, AA100714, AA814122, AI344503, AW630641, AA565221, D83844, AI298192, BF107350, AI377370, AU145877, AA576276, AI660510, AW246021, AI762020, BF348086, AI566827, BF038893, AA252636, AI557623, AI033568, AI275530, AW247446, AI243160, AW249916, N29820, AA401999, AW630888, AI459872, AW963847, AA614052, AA577310, AI335699, BF725197, AW005523, AA084464, BF436886, BF725374, BE266080, AA879130, AW020106, BF087850, AI016590, AA878132, AI937316, BF087877, AI904603, AA136726, AI092495, AA100767, AA225428, BF935680, BF087592, AA226157, BF931978, BE164779, AI221758, AI245254, AA975022, BE247132, AA669742, AA894694, BF922131, BF815547, AW732058, BF931980, AI380988, AA887378, AA634866, AA281318, AA977242, T08546, W72609, W76675, AA745751, AI800988, AI918129, T54094, BE840169, BF805751, AA659245, BE276130, AL047089, AA378278, AA586773, BF369800, R84952, T07628, W23065, D53077, AW949365, N67206, AA223541, BE840074, AI311661, AI673660, AA604301, BE393727, AA652178, AA506890, AA062781, T35654, BE328448, AA570603, BE840076, AA364044, AI627726, AA278340, AI954256, BF931727, AC004258, D78134, AF021336, AL133636, D78135, AX046362, A75235, AB049848, AB044390, X62773, T51013, T51104, T54185, T68577, T68655, T90261, T90702, T92691, R34639, R49168, R51392, R49168, H28502, R84994, H83786, H84723, H84890, N42512, N92710, N93744, W02861, W20327, W23680, AA031294, AA062736, AA070243, AA070244, AA136684, AA223589, AA225393, AA225735, AA259177,
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HOFMU50	788	105354 8	1 - 533	15 - 547	AU132452, AW291760, AI216391, AI525969, BF947708, BF337266, AK023260, AF267982, AF288992, AL121989, E17301, AB024568, AB007917, AF060178, AF169243, E17300, and D88811.
HE9MO38	789	105358 5	1 - 875	15 - 889	AA493380, AA334302, AW951691, AA313463, AA313497, BE902087, AA612692, AA321064, AW955000, BE742712, AW006877, AA299564, AI215629, BE811297, BE869635, AW242221, AI268131, BG025716, AI525357, BE875568, BE783028, BE537297, Y11484, AL136295, and X92720.
HOPJF55	790	105372 5	1 - 1158	15 - 1172	AL523613, AI583204, BG120734, BE614443, AI992172, BE886511, AI889239, AI075175, AW054762, AW471391, AI565737, AW519090, BE042738, BF732572, AI694195, AI394109, AA609929, AW167797, N30174, AI675145, AI333284, BE348940, AI348209, AW338504, AI262299, BE221339, AI140136, BE613836, AI190472, AW243822, AI142033, AA582569, AA464838, AI341876, AI357231, AA620776, AI333443, AI741278, AA865411, AA451663, AI677747, AI499958, AI292324, BF435957, W52760, AI751760, AI564037, AW297338, AI291569, AW170704, AI354944, AI498724, AI262436, AA620793, W52026, AW205638, AI247750, AW593472, AA777068, AA317293, AA582741, W03413, N46148, AA568649, AA722460, W78008, AI240599, AA923449, AA601169, BE150238, W87000, AW779522, BE812439, AA379596, AW263292, BE062962, AA379287, AA450251, AA341820, N40820, AA738207, AA853444, AW262564, H27217, C02525, AA922610, AI371985, AA359221, AW296820, AA853445, N36877, AA911932, BE693985, AW603029, AW950060, N67487, AA330786, AA581766, AA247429, AW605997, AA720994, R21859, AA341470, AW605998, R21862, AI701773, AI264461, R67787, AA992864, AI129067, W79893, AW198060, AI567586, AA857927, AI280922, R67788, N86551, AI916486, AA055177, AW580765, AI129037, BF062386, AA513284, AI149517, BE062965, AA450309, AA329559, AI971437, AI250656, AA296724, T12333, AI687174, AA091735, BF589785, AA092748, AI990853, BE077064, AA582377, AW243840, BF330684, H26201, AW603138, AX014087, U19718, AL049569, S68064, M59851, L23769, AJ009948, U19719, and AA055295.

HAOTD13	791	105374 6	1 - 994	15 - 1008	<p>BE799225, BE618864, BE799188, AI190314, BE902052, BE732626, BF338390, BE740450, AI148878, BE741535, BF690392, BE748721, AI081232, BE746546, BE314406, BE902235, BF316712, BE794590, AI204081, BE790602, BF975103, BE730656, BE745737, BF308298, BF969904, BF689453, AI983729, BE548414, BE618379, AA781462, BF315257, BF976258, BE745233, BG024416, BE902752, BE788069, BE255282, BE907398, AI079576, BE302855, BG118897, BE891433, BG258174, BG179007, BE255307, BE258767, AA778554, AV759912, BE540548, BE908456, AW026432, AW157348, BE748048, BG114783, AI820053, AW163407, BF975156, BE733757, BE903629, AW026229, BE905435, AI553851, AI857561, AI815796, BE733863, AI032535, BE855855, BE892753, BF797147, AA724133, BE855433, AW083250, AA412706, AA292189, BF789865, AA576423, BE535652, AA075512, BE019659, BE251323, BE019712, AI129134, AA075511, AI609823, AA551928, AA291788, AA399084, AA864673, AA399692, AA593943, AA397672, AA723613, W28583, AA310012, AI285038, AA405095, AI866592, AA774638, N22852, AW794779, AV742027, AI149026, AV717158, AA164510, AW089756, AW794764, AA886985, AI537527, AI291219, AI961557, W70096, AI015724, AA082829, AI041153, AI140036, AA725759, AA729842, R62749, AI568491, AW391249, AA287512, N58787, AW794782, AA101085, AV741366, AI290054, AI050996, AW794936, BF941032, AI692317, AW794876, BF125011, H99328, AW006955, BE300531, AI092733, W28780, BF210376, AW337357, F36786, AA076255, AI568190, AI929499, AA588108, AI292541, N91155, AW197007, AA994790, BF081605, AA971112, N35606, BF361421, AV738471, H95064, AA508023, AA287384, BE073579, BG056567, BF676892, R69908, BF674295, AI203456, AW381952, H61382, BG230794, AA477996, H48682, AW580580, AA287849, BF246820, AA481906, R23865, AW439138, AI350298, T95464, H81575, N26433, AA715821, AA367130, H70334, H94465, BF527562, AA310900, AA076254, H83767, AA917813, AA335277, AV735711, H62402, AA480101, AA747596, AI801317, AA340716, H94798, AI749929, T69061, T68984, AI953164, H61381, H48513, AW386817, AW250564, AA325135, AA336042, H93989, H83908, H96377, R78775, F19155, AA477997, BF687682, F31851, R33912, H03483, AV744024, AI458674, R92549, W16564, BF746771, BF821358, H03578, H62403, T99495, R48630, R79081, H20726, AI720532, T98906, H94558, F19427, BF738012, T19150, H98962, AW338431, BF820551, AI695819, AA317280, R22084, AI688669, H70335, R69863, BF331545, BF821444, AA304515, BF903687, R33024, N77476, AA345986, AA877573, AI871273, AX014335, X16312, M30448, AL132713, AP000504, X57152, AF129756, L15619, X52959, X56502, M98450, S56242, X56503, X80685, AF109719, AF133088, AX047063, A82595, A62298, AX047064, A62300, AR050070, A82593, AX047062, Z30183, U94592, AX009343, AX009341, AX009337, AX009335, AX009345, AX009342, AX009344, AX009340, AX009339, AX009336, AX009338, AX009334, AX040581, T95360, R22031, H00821, R92456, H93990, H94701, H94703, H96376, N71296, W01604, AA164509, AA236016, AA588428, N83194, and D20309.</p>
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HODCJ32	792	105377 2	1 - 843	15 - 857	N98689, BE220444, AW014160, AI684332, AA908217, AI768199, AI420127, BE328071, AA256404, BF439620, AI268854, AI818740, AI859930, AA988651, AI240108, AI457355, AW193469, W88508, AI298653, AA705838, W90399, N66164, N64630, AA256298, AI123104, R51117, AA410637, AI565699, BE830775, AI090999, AI333934, AA321997, AI419686, N79959, AA019567, AC006160, and AB033102.
HOCPT34	793	105397 3	1 - 2343	15 - 2357	AL516637, AL536090, AU131623, AU128040, BE871627, BE887564, AI559471, BE782375, BF197393, AW300290, BF725147, AW580224, BE177290, AV726266, BG107708, AL533304, BF724858, AW771057, AU126185, BE294538, BE295415, AI033487, AL045011, AL045003, BE872512, BE350471, BE148091, AW303509, AW001892, AW962800, BF925269, BE967600, AI271904, AI863524, AA579942, BE969850, AI554943, BF951650, AV701826, BF951644, AA505945, AI424740, AA188625, BF947724, W87888, AA021522, M62015, AA451951, AV649739, AA179502, BG108051, Z43171, BE379997, AA179481, AW960727, F06685, W87815, BE934233, R74509, W20274, AW663636, AI394602, AI815234, F09307, AI263828, AA325948, BE328111, AW996063, BE503163, H24294, AW341860, AI698362, BF902323, BF889196, AI002877, T87325, AA355638, BE540171, AW379824, W21832, AW992687, F05888, BE090298, T87427, BF382925, BE095176, AI474826, AA188757, AA371304, Z42486, BE699743, BE170074, BF726249, AW510526, AA932578, BE552427, R89855, AW166687, BG178825, BF951590, BF726418, W86993, BF850658, W92023, BF842138, BE700038, BF088114, BF741571, BE958636, X81889, AC005042, U81005, D17102, and AL050364.
HFKHC64	794	105401 5	1 - 1962	15 - 1976	AL520088, AL522023, AI669758, AL520087, BF313617, BE796161, BE867541, BF969868, BE870134, BE871582, AL040779, AW007648, AU133627, AU122531, BE795892, AU118141, BE617475, BF032557, AI813416, BF984498, AI922790, BE877667, BF981072, AI818627, AI683114, BE280176, BF593818, BE262646, BE873710, BF438287, BF313170, BE867308, BF880640, AW239514, AI859453, AI805461, BF312324, BF312686, AI817269, BE798516, BE262187, AL040778, BE670555, AI589223, AI859447, BF102546, AI827343, AI088366, AI038184, AW080985, AW029180, BE313320, BF881541, AA523906, AU124748, AA404715, AA757162, AA533530, BF984274, AU126959, AI751655, W86506, BE313538, BE536712, BE873642, AI366123, AA838403, AI583599, BE796350, BE502187, BE902265, AI636646, BF915019, AA668508, AI752316, AI079121, AI752315, AW137769, W59993, BF310591, BF762496, AI677762, R59727, AI751656, AA884168, AI039262, AA729713, AA112575, BE872221, BE879109, BF317243, AA112576, R73625, AA992193, AA225005, AA128885, R73697, AA076108, T52678, AI205653, T52677, BF765650, W52739, AA159180, AI084546, AA181476, R59836, AI806402, AA159258, BF740972, AA514833, BF841749, AW178873, AU076542, AW386949, AA133108, AW953790, AW351518, AW178870, AA404588, BF880633, AA364017, AW845180, AW386948, AI818328, AW386951, AW845174, AA225050, AA182944, AI652074, C00163, AA888456, AA888545, W86439, W69936,

HOPKO37	795	105408 5	1 - 2104	15 - 2118	BF875181, D31259, BF923033, AF058448, X80038, M80206, AF044965, D26107, AF044962, AF044963, and AF044964. AL515664, AL524779, AL518207, BE797393, AL525979, BG119182, BF338628, AI978592, AW236571, AI950954, BE799316, AA976746, AI367649, BF737171, AU151637, AU151942, AW950551, AL522243, AL522244, AW291293, BF527370, AA100964, AI637966, BE906449, BF515686, AI973165, BE328566, AU150007, AI985899, BE350709, AW955183, AA903534, AL534285, N69879, AI683844, AI539699, AI862965, AA722542, AA157234, BF569979, BF928083, BF081481, AI937048, R21933, AA921357, AW263068, AW078559, R15254, BG056697, AA853109, AI921712, AA501571, AA491761, T28437, AI417310, AA974219, BF514105, AA644634, D55622, T08014, AA173338, AW239549, AI675176, AI904931, BF529133, AW887766, BF924338, BE774190, M85424, AA484169, BF854146, BF960484, BF960491, H39733, BF850364, AI363763, BF310916, R85867, AA027031, AI479546, BF081518, BE163371, AI435672, R22582, BF930534, BF849651, BE544234, AA324089, BE073147, AW949191, BF756750, BE834207, AF187148, AF187147, X59267, U00802, AL110225, D17530, and AB015042.
HNBVO53	796	105412 2	1 - 2424	15 - 2438	AU123514, BE797781, BF530408, BG110499, BG030912, BE253026, BF526281, AI655767, BG250155, BF063129, BE621171, BF348182, BE621844, AA532783, AU152557, AA936772, AW628190, BG107424, AW136709, BF344327, AU154567, AI569240, AI927300, AU152096, AU144363, BF313185, AA845914, BF476524, BE220478, AI685706, AA534332, BE779247, AW071965, AI970850, AA836622, AA121331, AA196265, N62385, AI023383, AA835031, AA309005, AI380911, AA837870, BF037753, BF929041, AI628778, BF897676, AW167088, AI635967, BE260887, AW026752, AA996092, AW591385, AA298626, AI446440, BE252176, BF815841, AA121494, AI872757, BF920701, AW948496, BF992448, AI671996, BE782229, AI359525, BE815916, N44199, BF328458, AI637865, T50194, T50139, BE314147, BF475277, AU133189, AI672561, AW880161, BF312475, BF815631, BF528463, AW364326, AW603816, BF897680, AI446734, BE730847, AL537364, BE263444, AR077146, U88153, AR077147, U88154, X75330, AL139383, AF177767, AK000250, U95739, AL022723, AF307337, AL078630, AC006944, AC010723, U72620, AC025735, AC006338, AC010088, AL353999, AC002287, AL050322, AL020995, and AW003538.
HOPKF84	797	105415 5	1 - 2008	15 - 2022	AV758100, BF980114, BF574278, BF970145, AV758858, AA628397, BF791399, AA628438, BF791467, AI743743, AA741499, AI767389, AI967956, BE380111, AV714052, AW103967, BE865483, BF208989, BE672325, AA768854, BG058541, BE564796, AV715992, AI677784, AA015599, AI765361, AW181895, BG170527, BF217259, AI811418, AA889584, AI934936, AW188257, BG109088, AI627968, AI435166, AW015219, BF217253, AI186649, BE672387, AI090415, AW967749, AI689149, BE672811, BF028345, AW301148, BF242906, BF477633, AI000120, BG112549, AA748367, AA465112, BG109521, BF894170, H81836, AA804217, AI891100, D79280, AA099034, AW016554, AA805297, AA970066, AI536041, D62658,

HCQDQ11	798	105419 6	1 - 799	15 - 813	<p>BE709427, AI698789, CI5699, AW967748, AW770219, AA211818, D79875, AA383141, BE884134, BG255002, Z36757, D62657, AI681333, AW374562, BG254237, AI337477, T34154, AI934237, CI5815, T36059, CI5707, CI4853, CI5779, H81837, BF806390, AI263154, ALI17575, AF117386, AB014458, and ALI17503.</p> <p>AL538129, AL525022, AI111183, BE896548, BE872112, AI174851, BE875361, BE877234, AV729201, BE880128, BE875412, BE879304, BE881218, AI133323, AI133348, BE877386, BE877647, BE881076, AV726346, AL513828, AI114736, BE879909, BE878894, AV728251, BE874647, BE878122, BE876531, AV706779, BE874520, AV705883, BE875889, BE879135, BE876719, BE881222, AV729465, BE876043, BE877496, BE898937, BE891387, BE879695, BE876425, BE877004, BE867307, BE878178, BE874747, BE870155, BE875792, BE878626, BE880711, BE877131, AV729314, BE877150, BE875858, BE877497, BE880762, BE874662, AI750078, AV706307, BE877757, AV725309, BE876651, BE877268, BE877390, BE873343, AV693283, AV705995, AV724988, BE892487, BE880690, BE873478, BE874696, AV725316, BE873954, BE879455, BE876550, BE876704, BE874926, BE879522, BE880948, BE877488, BE898560, AV702923, AI065146, BE898750, BE879410, BE874003, BE891700, BE878210, BE868527, BE881146, AL048390, BE879895, BE874445, AI110700, BE878213, BE868548, BE876098, AI1147501, BE880602, BE875601, BE869133, AI749163, AV710316, BE879775, BE879302, BE870577, AI114553, BE874422, BE869149, AL036120, BE876785, AI133444, BE868532, BE899424, BE898986, AV726351, BE877242, BE897096, BE878330, AV709557, AV721544, BE897811, AV726493, AV760899, BE880425, BE880237, BE879859, BE878477, BE876062, BE867317, BE878677, BE875261, BE877643, BE896982, BE880140, BE880722, AI133486, BE868603, BE896992, BE875918, BE878900, BE875968, BE878422, AV708006, BE879413, BE895621, BE879761, AV706033, AV714977, BE875062, BE875955, BE877726, BE881506, BE880958, BE876884, BE877598, AV723290, BE543600, AI114723, AI174902, BE880977, BE881693, AV702580, BE877674, BE875438, BE873842, BE880947, BE874215, BE874402, BE876037, AV709615, BE875168, BG179400, BE878468, AV723029, BE894635, AA639334, BE880688, AI114569, AV705696, BE879688, AV723395, AV707010, AV659215, AV721627, AI721239, BE878238, AV702695, BE880276, BE877542, BE868786, AI110881, AI110734, BE878173, BE875310, BE873841, BE881638, BE881057, AV721920, AV708355, BE876568, AV725190, AI833114, AV722162, BE880950, AI114585, AV721831, BE898371, AV708529, AW583569, BE877813, BE877271, BE880442, AV723161, AV706277, AV759353, BE875398, AV722611, BE878381, AI720161, AI207615, BE895091, AV706568, BE880705, AV702323, BE877616, BE878333, BE877479, AV721391, AI133691, AI133302, BE875536, BE874084, BE881594, AI110877, AV700257, AI733732, BE880427, BE894655, BE877518, BE875382, BE881138, AV726110, BE881444, BE894924, AV721794, AV706979, AV727742, BE880157, AV648404, AR083056, I27367, X54629, AX039612, X62996, V00662, X93334, D38112, L08441, D38116, X93335, D38113, AL359334, X93347, D38114, X97707, AF134583,</p>
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HTFML39	799	105423 0	1 - 1117	15 - 1131	<p>U35430, Y10129, X84075, AX026544, AF004341, AF144745, AB005535, Z79403, Z79419, and Z79459.</p> <p>AL521566, AU132947, BE796018, BF315869, BF529521, BF342405, BG110483, BE728134, BF343720, BE730825, BE748876, BE548415, BE274864, BF339798, BF304364, BE732386, BF315441, BE786312, BF182790, BF968636, BE563888, BF038254, BG255203, BG110675, BF035338, BG119773, BG119580, BG113551, BG104944, BF793179, BE789501, BE905838, BG253457, BF206217, BG169125, BE258630, BE905033, BE878321, BG117367, BE902660, BF340314, BE788244, BE898712, BG105366, BF313550, BG249903, BE899138, BE909568, BG026799, BE621592, BG179337, BE906113, BG115754, AV721524, BE893911, BE782221, BG035773, BG028967, BE904789, BE868117, BF183186, BE728460, BG028089, BE383131, BG165408, BE385011, BG169445, BG104995, BE255596, BG115817, BF310299, BF691775, BE875197, BE877408, BE386706, BF309091, BF964982, BF669408, BE880221, BF344914, BF971354, BF315104, BE314030, BE293308, BF697543, BE256255, BF679612, BE263605, BF673819, BE277661, BG110524, BE960835, BE873914, BE313764, BF668331, BE264281, BF793965, BF665289, BG117924, AW518666, AV701703, BF793392, BE547745, BE735901, AA126478, BF982353, AV708851, BF576741, AU154376, AI140261, BG259878, BF668401, AA933701, BG164948, AA311048, AA903801, AW069876, AW950229, N25666, BF677004, AI749940, BE313988, BF968021, AA844255, BE260225, AA923066, AI190054, AW516719, BF678818, BE905919, AI189989, AA683180, AA868208, AI200522, BF700293, AI151195, BF248227, AV748753, AA618277, AV704674, BE256823, AI003622, AA928475, AI698515, AI1819243, AI636813, AI873651, AV748748, AI075108, BE905993, BE786788, AI264463, AI720873, AA405732, BF312219, AA617719, AW276899, BE748286, AV752868, AV724041, H96665, AI369903, BF971263, AI984852, H37980, AA976043, AI368683, AA676347, AV763783, AA632591, AA729917, AA041378, H39510, N78663, AI185253, W07016, N95711, H38201, AW169761, AW243746, AA195473, AI874282, AI860540, AW406435, AI077646, H22238, AI281822, BG170377, AI799707, D53319, BG168389, AA152179, AA618235, N79560, W20111, H70130, R33096, BF680267, AI547083, T59878, BE907521, AI524586, H70141, H70129, W59941, H67874, AA557768, AA337055, AI027038, AI288096, AA397637, AV750982, BE525883, BF477830, AI911809, W44943, AI205865, AA404266, AI244252, BF678473, W24865, N20095, AA935411, AI186009, N22863, AI001215, H15847, AA371710, AA864565, R83778, AW079732, W46569, W46988, H70142, AA460292, AA902854, AA565961, AV695742, AI524956, BE251888, AI000752, BE408617, BF927587, AI658831, R83344, AA902531, BF917194, AA481464, AW072107, R73752, M63573, M60857, M60457, U95646, D14073, X58990, M60456, AF071225, M63553, AX024013, D28465, T59969, R33189, R70193, R80575, R82525, H16158, H25156, H25499, H30503, H64624, H82596, H96541, N20397, N25489, N31525, N39292, N42464, N71262, N71712, N75425, N80056, W25031, W39593, N90698, AA088511, AA088510, AA190403, AA190547,</p>
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HOGCR32	800	105423 5	1 - 195	15 - 209		D86958, and AB050017.
HFCDL60	801	105428 8	1 - 1145	15 - 1159		BE735923, AI797287, BG115092, BF984368, AV734956, BE782551, AW963436, BE734764, BF741486, AI417037, BE047487, AU139797, AW614852, BE206393, BE645429, AI570957, BE278325, AV685296, BG059639, AW085167, AI342088, AI091080, AI670117, BF317212, AI375955, BE727563, AA406138, AI674218, BF527302, BE260465, AI307214, AI039708, AI278555, AI308199, AI804252, BE397161, BE267961, AI143247, BE271284, AI179217, BE312935, BE857958, T60490, BE559957, AI179218, BF953246, BG248792, AA479955, BE396639, AW139810, AW800289, BE276441, BE312359, BF527732, AI290336, BF376689, BE409355, AA968854, BF819153, H81763, AW888756, AA297277, BE729397, AW800327, BE546083, AW888764, BE781522, H44302, BF312468, AA302994, T66192, R49957, N50982, F12041, BE904711, AI990689, AI990013, BF926592, AA825494, AI656978, AW025641, R59453, AA478857, AI633898, AI381847, AA234882, AW963831, AV761704, AW205263, BE397225, AA018203, BE390473, AA235309, AA298718, R50303, AA853469, BF792351, BE390003, BE561075, R50304, AA341701, BE830781, BF759397, BE296667, Z40331, AI123938, AA810959, BE908294, AI906347, AI906396, BE274582, BF028602, R47809, AA297899, AA477659, BE543777, BG122377, BE241908, BE311529, AA302955, BF767415, BF034042, BE269825, H81762, AA310733, BE276171, AW403784, AA297784, BE384715, BE968774, AA227218, AA730880, AA948131, BF819152, AI436806, AA171826, AW629605, BE409949, AA298947, AR077724, AF005038, AF295402, and AF295405.
HODEC13	802	105440 0	1 - 1587	15 - 1601		AL529027, BG032710, BF340863, AW298183, AW071103, BE280319, BE733423, AI597705, BF990521, BE295339, BE465216, BF990508, BF591357, BF990509, AA412658, W94248, AW139770, AA233003, BF305673, AI972011, AA926846, BE501013, F08452, BF205806, AI192772, AI215515, AI138422, AI360421, H85735, R19924, W67467, AI073920, AA359416, BF195137, BG250773, BE410047, BE703239, BG253012, AI971074, BF767322, AA360108, BE266899, R71864, AA628097, AA405160, AI870873, AA707220, BE799986, AI417320, AI990992, AI422884, BF061608, AI223130, W67468, AA422049, BE856683, BF063050, BE707658, AL390184, AC007059, AC006128, AB012265, and AB012266.
HUSYA18	803	105445 1	1 - 676	15 - 690		AI630915, BE315220, AI686944, AI817246, AW162565, BE748690, AA621824, AA613885, AA243477, AI148140, AA599322, BE748790, AA483552, AI096489, AI176242, BF437716, AW818628, AW818575, AA588407, AI862878, N95605, AA427425, AA412220, AW673918, AL527492, AI573043, AA470032, AA677651, AA577431, AA902530, AI434640, AI613297,

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				15 - 2451	AL519517, AL526142, AL534164, BE885756, BE621304, BG249081, BF313448, AW361554, BE886300, BE278345, AV704016, AV704423, BF798209, AW007684, BE792915, AA527297, AW374214, BE538768, BF337215, BE277949, BE294274, BG254330, AW207562, BF002700, AW578195, AI738569, BG169510, AW007693, AI553858, AI760425, AI669766, AI739483, BF808018, BE889821, BE782039, BE293113, BF125432, AI743185, BF154721, BF530774, BF808020, BF929315, AW851394, AW054902, AW207156, AW003601, AW361575.
HOCON42	804	105452 7	1 - 2437	15 - 2451	

					<p>AI991291, AI049691, BF802491, AA223131, BF084670, BF750810, BF475801, AW103033, AU153483, BF927820, AW850936, BG118548, BF747951, BF814169, BF092988, AI310442, BF092995, BF092992, AI923807, BF809250, BF092962, BF093001, AI493604, BF591238, BF092993, AI499081, BF092997, BF092961, BF092994, BE934428, AI285965, BE934419, BF093229, BF892634, BF092975, BF092989, BF093211, BF093216, BF089329, BE934331, BE940289, BF093234, BF093000, BF093215, BF092972, BF089310, BE934460, BF092985, BF093222, BF092980, BF093221, BF093026, BF089321, BF093066, BF093218, BG033313, BF092977, BF092998, BE934480, AW135840, BF093230, BF092965, BF093225, AI369074, BF093224, BF092946, AW299929, AW651681, BF093089, BF093209, BF092990, BF093077, AW439515, BF093208, BF377521, BF747983, BF946471, BF093241, BF357108, AW136328, BF093210, BF377521, BE891425, BF765598, BF089204, BF093231, BF092939, AW579099, BF107443, BF377520, BF093107, BF093104, BF759372, BF093002, BE872574, BF827769, BE296190, AI351078, BF763271, AL135161, BF929296, BG010241, BF881021, AW845179, BF093022, AW895040, BF734196, BF092971, AI950167, BE174096, AU131810, BE903495, AW518521, AL046728, BG248622, AI245500, BE843839, AW580422, BE934328, AI057264, AW292493, BE730115, AI905742, BE077287, BE938501, AI654523, AI744139, AW195303, AW845183, AI631145, BF757539, BE672425, AA887978, AW087772, BE938484, AA678580, BE902690, BF925750, BF089203, BF931279, W45487, AA780897, AI758551, BF093097, BF800895, AW008009, BF757535, AW006821, BF436459, AI817321, AW862169, BF092967, BF092978, BF377511, AW881491, BE463552, L36983, AC007229, AK023207, L25605, L31398, L24562, L31396, L31397, L31395, AC011554, and AI825013.</p>
HKMNH37	805	105455 0	1 - 1937	15 - 1951	<p>BE794712, BF056090, BG032645, AW963359, AI609324, AI797094, AU141720, BE220504, N62821, AW384434, BE391552, AI745653, AI859678, AI242676, BE869868, BG231791, AW513142, AI276266, BE018033, AI190261, N32701, AU159211, AA487433, N22994, T19397, AA574187, AA515072, AA478927, AI867978, H69438, BF903409, AI631179, AA513388, BE182286, AI004755, AW044147, H54167, AI223797, AI745295, AA657750, AA687711, AI379463, D45484, AA342547, BE673591, BE749133, AA913123, W04381, W01356, AA478809, H69850, AA769538, F34761, BE749132, N74281, AA487641, AA430663, AA461437, H54010, R72030, BE409746, BE670301, BE383720, AI625849, AA461609, F20574, F20605, BE501211, BF903844, BE390109, AW512405, BE391291, BF988687, BF998811, H83563, AW131875, AA815068, AA456482, AA436517, N40421, AW103017, BF447897, BE002531, BE276832, AA377687, BE670898, AK023923, AL390142, and AF131763.</p>
HPDWP21	806	105466 2	1 - 1301	15 - 1315	<p>BF339802, AI246593, AI310122, AI830255, BG032489, AI859560, AI817151, BE746733, AI635257, BG120662, BF304489, BF690278, AI690868, AI863434, BF307587, BG167336, AI478877, AW962457, AW370524, AI912854, AI571578, BF836273, AI597983, BE868784, AI587206, BE295076, AA745041, AI828784, BF836265, BE299440, BF344501, AI687042,</p>

					AI887413, BF837997, BG028533, AW748463, BF797660, BE547710, BF836263, AV762808, AI393487, AI313141, AV683267, AI393186, AI569916, AW608294, AA523382, BG121151, BF842761, AW997224, BF837983, BG253852, AA678226, AW956535, AA522881, BF837985, BF837981, AW505104, AI273638, AI250778, BF837994, AW338165, AI279740, AI858950, AI246290, AW405701, BE385250, BF853924, AI660627, BF836245, AA934738, AI753235, AW090588, AA604320, AA741423, AW631328, BE19670, BF570091, BF093171, AI206705, AI444933, BF740468, BE811103, AA947238, BE167258, BE811106, BE811099, H94645, BE811102, BE811092, BE811028, AW955100, AA076343, BE811081, R41853, H79450, BE811067, BE048120, BE811105, AW607926, AA617862, BE829528, BE878630, BF926799, AI431989, BE811075, BE811093, BE875213, AI269129, AW957533, AA640020, BF740469, BE694466, AW272192, BG035138, BE811083, AI753773, AW083081, AA296715, R83719, H50977, BE745364, BF932361, AA533714, BF736543, BF338112, AW192724, BF195530, BF445662, N20971, BF837988, AI042398, AI433918, AI679136, AI679710, AW511252, H79335, AA131573, R54390, R41303, BE742259, AW770307, AI264479, AI754912, AA604059, H53771, AA343126, AW518995, H44662, AI273773, BE811091, AW105718, BF955501, AW517997, AW498571, BE901878, BF691277, AI582460, BG005376, BF962648, AW869402, AW838929, BG104456, AA076342, BG005375, AI343291, AA470807, T30851, AA081221, AW193585, BF448558, R17242, AW970631, AA353626, AA954917, AA081011, T55421, AI658962, AA632282, T55498, BF570198, AW992217, AI972900, BE815834, AI417760, BG029779, BF690092, AA863150, D19779, BG056225, AW976048, BF084998, AW747942, BF994654, BF990589, AA471266, BG005726, AA367335, AI343584, AW057826, BG014583, BE836776, BE279410, BF836261, BE929139, BG005358, AA334546, AV733351, BF593923, AA015595, AW236294, H74172, BF836274, BF840147, BF953061, BE968711, H51631, H94644, R54389, AI799975, AF177198, AB028950, AF078828, X56123, AF178534, and AF113217.
HOGCS2	807	105467 7	1 - 2631	15 - 2645	AL530487, BE745421, BF530206, BE744240, BE732555, BE560832, BE728102, BE734494, BE900928, BF340173, BE899085, BG171027, BE407847, BF339012, BE391461, BE005931, BE387398, AW962475, BE392364, BF345275, BE870859, BE269190, BE280532, AA521235, AI569503, BE392132, AL530895, BE908923, BE295971, AW262804, AI264216, BE018918, BE890434, BE005979, BF961405, BF343159, BE715414, BE542338, BF792605, BE514659, AI636351, AI859499, BE675736, AI744758, AA758222, AW024550, AI126826, BF124910, AA594600, BF530317, AI567104, AI935268, AW510761, AI280100, BG149675, BG231713, AI363344, AA483476, BE245842, BE782378, BF896674, N72581, AI633705, AW082737, BF348228, AI291530, AI376854, AA862073, AA523423, AI439117, AA774640, AW360876, AA631579, BG006132, AI459751, BE504207, AW300087, AI673280, AI885032, AA405342, AA788862, BE218474, AI022088, BF896671, AA703032, AW341140, AW026262, AI168484, BE208332, BF376297, AA733166, AW574867, AA878000, AI693928, AA456364, AI377769,

AI762166, BE295604, AA393265, T47288, BF995787, H80493, AW261896, AA682322, AI189548, BF338783, AA224519, BE828754, BG149772, AA398668, AW276800, BE828767, AW264368, AJ239429, C01609, N76973, BE294075, AW263725, H81411, AA813297, BG261025, BF594376, BF088543, AI362740, AW392277, BE770083, BE828760, BF309314, AW403980, R71977, AA574078, H00206, AI360375, AI949151, BE828785, BE089517, BF753501, N55486, W46600, BE828818, BG011135, BE828765, BG013533, BE828764, BE828755, AI991548, BE828784, BE828773, AA988364, AW408627, AI476154, BE828772, BE828763, BE828777, BE828813, BE828802, BE828774, BE828753, AW592301, BE828608, T58646, BE828807, BF372548, BE828817, R73494, BF359084, AW374260, BE828775, AI796868, AI948980, BE770090, BE156325, R73493, AI284200, BE828812, AI858455, BF359052, BE395483, AW316844, AA580230, AW302496, AV682937, BF510303, BE828766, BE828741, BE770069, BE828804, AW613792, D78676, BE828732, W46599, BE770079, AI089718, BF336410, BE001474, W02183, BE828816, AI420509, BF849624, BE828821, AA962198, BE828811, BE828757, AW469085, AI262650, R38776, AI857255, BE243177, BE828778, BE828801, BE828835, AI784360, BE828815, BE828803, BF376437, BF359073, AW167008, BE770068, BE770087, BE828786, R79914, BF359066, R40070, AW105212, W28668, BE828806, BE828745, BF376305, BE828783, AA468328, T31551, BE828828, BE828833, BE828822, BE770064, BE828733, BE770091, BF372547, BE770076, BE828750, BE001475, R62897, BE828752, AI198489, AA095791, R20930, BE706927, T58696, AI700843, BF372554, AJ245621, I89943, AF070636, AF109906, AL137557, U35846, AB050510, I03321, AF262032, AK000652, AL389939, AF090903, I89947, AL122049, AK026885, AL162062, AJ299431, AL117583, AK000083, D83032, AF119878, X53587, I48978, AB047904, A08913, AL137480, AK027164, AK024601, AK024538, E12747, AF130110, AL049300, A08916, AK025906, AL133014, AL133113, AF056191, AR038854, AF155221, AL133072, AL117432, A08910, I89931, A08909, AR087170, AK026504, AF113699, AL137550, X72889, AL133104, AF051325, AK026542, AF090896, AX040974, AX040958, AK027096, AF118070, I33392, AK025798, U68387, AL157431, AL157482, A08912, AF208026, AF285167, AL122110, AF100931, AK026480, AF139986, AL133080, AL133081, AF177336, AF116654, E07108, AL050116, AF138861, AL133077, AF090901, AF116602, X82434, AF119894, X62580, A08908, AK026651, AL353957, AK026551, AK026855, AL133067, AR083266, AL050024, AK026526, AK026642, AF217987, AL122098, AL133557, AF116646, AK000718, AK026464, AK026533, AK027114, AK027081, AF119875, AK025391, AK026353, AK027204, AF090900, Y14314, AF260566, U91329, AF113689, AF225424, AF119859, AL359601, E08631, AL133016, AF130082, AK026600, AB050410, AF146568, AF271350, AF130104, E07361, AL353625, AF132205, X70685, AB047941, U58996, AX020124, AF242189, AK025484, I48979, AF081195, AF130066, AF218031, AF116610, AK000137, AF130099, AF057300, AF057299, AL050277, AL122123, AR038969,				
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HWMCK60	808	105475 1	1 - 837	15 - 851	<p>BG034955, BE791091, BF795645, BE887479, AW964050, AI279571, AV703979, AW327547, AW008771, BE858295, AA156871, AV715974, AW327590, AA442355, N32013, AA156980, AI830613, AI589143, AA628965, AA437277, AI572652, AA447436, AI479083, AI582264, AA243570, AA557131, AA706690, AA621068, AA929050, AA446337, AA918355, AI189310, AL537813, BE784139, AI626008, AI401393, BE785013, AI400442, AV723491, BF967964, AA622742, N63418, H99028, C14412, AA243788, AW088157, AA039774, W46195, AA662472, AI277813, AI376345, AA394118, AA641535, AI128499, AI139325, AI251864, AA291896, BF967240, W46369, AV721205, BF514356, AI095636, AI097294, AA664607, AI224485, AI311820, AW591064, AL537812, AA563972, AI079459, AV725856, AI160569, C14369, AI160567, AA991440, AI300798, AI277891, AA283625, AA156771, AA447435, AI091021, AI159880, AI274254, C14400, AA055193, N39264, BF089195, AI350268, W87307, AI091132, N62211, AI362660, BE934325, AW296986, W93925, W81271, AA954225, C14352, N33931, AI378407, AI278572, AV764395, AA936816, W81215, C14220, C14335, AA687810, AA459765, C14509, AA887292, AI205800, AA402938, AI870692, AI334251, AW298025, AW025906, W81234, BF337003, AA804951, AA729670, AI286284, AW264158, AI277887, AV720595, AA719806, AI276858, F23436, AW004643, AI423797, AI242916, D80204, AW955482, AA736608, AA307414, BF091300, AA329436, AW593341, R26078, AI635237, AA156665, AI610660, AI378637, BG058731, R80542, H00546, AI718621, R77959, BE218024, AA354411, AA932784, R62807, D56162, AA356901, AA305255, AV743458,</p>

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HAMGH34	812	105501 2	1 - 1694	15 - 1708	BE613557, BE410666, BE254541, AA788928, W73824, AI203994, AA827774, AI657035, AA398840, AI240982, AA435849, AA280540, AA588587, AI912272, W73856, AI261800, AA767870, AA476510, AI826017, AA428181, AI203623, AA188185, BG015927, BF962882, AA722432, AA875844, BF508386, AA188792, BG015917, AI567261, AW071511, AI095574, AA417328, AI660749, AA428392, AA627483, BE836581, BF056887, AW024787, AA417307, AI014719, AA557824, AA280168, AI381202, BE080381, AA932183, AW978501, BF740071, AI419293, AI924859, AA830705, F02450, AW956401, BE966456, AI678158, AI055887, N95415, AI092293, AI807035, AI989916, AI361166, BE042916, AA729234, AI140771, AW089633, BE671414, N52346, AA189174, AA249783, BE836577, C00838, BF961655, T30673, AW960715, Z42973, AI000046, BF954203, AF106682, AL353748, AF317228, U48972, Z82211, Y09858, and AL022157.
HTEHP29	813	105517 4	1 - 875	15 - 889	BG110560, AI631281, AI625779, AA195347, AA195272, AW474711, AI265934, AI138775, AW016790, BG116032, AA884056, BE378635, AW594221, AW117655, AA813932, BE501702, BF970724, AA523692, AI612804, W15522, AI269236, AI688937, BE048861, AW269485, AW269486, AW269484, AI004948, AI038706, AI889700, AI470952, AA812584, AI160543, AI285978, BF221831, AW771552, AA557400, BE502099, AW516672, N23668, AI888851, N22625, AA700480, AI204356, AI381560, AA161383, AW439318, AW299589, BG236353, AA700153, AW273361, AW303803, N59616, AW769118, AA007426, AW243227, AI302000, AI189245, AA195140, H63951, AI480339, AA404683, AA044991, AA515881, AI073466, AI825630, AW271843, AI971564, AA195346, BE090990, AI699944, AI033808, AI873005, AW263931, AA634226, AW337201, R91419, T98768, T97607, AV647493, W15411, AA579985, AW341132, AW970838, BE340541, BE169724, BE673623, BE163714, BF849453, AA732611, BF326748, AA348483, AU125299, N67124, BE178033, BE169478, D20935, AI554244, BE842937, AI824259, AA156037, AA156188, R29401, AW370209,

HNOJJ32	814	105524 8	1 - 2409	15 - 2423	<p>AU117466, BF591713, D82494, BE503984, AI933783, DI3644, AK025831, and AL137760.</p> <p>AL534390, AU119754, AL534391, BG166638, BF435674, BG167871, AI796967, BF795015, BE644847, BF681391, BF448215, BF435801, AW195747, AI142105, AU148848, BF431958, BF590714, AU146016, AV707400, BF850758, AI740869, AA191594, BF943026, AI498701, N64011, AI948435, AA191083, AI125704, W86389, W86388, BE047729, BE047722, AW673294, BG055851, AI282275, AA887501, D61002, AI197956, H80459, BF095155, AA330746, AW204689, AI003139, AA219621, AL046187, AI985257, BE889906, H99275, H81379, AA346169, BE140220, H05031, AL046188, R20553, AI912734, T30719, R41899, BF062269, AI197904, BF377757, AU133106, AU154500, BF349751, BF736129, AW386705, AA779217, T24891, BF380122, AW960899, H05030, AI864073, AW841797, AW895025, AA992514, C00222, BF090602, R17531, AA338366, R12654, BE903088, AW020592, AW963756, AW945168, AW950267, AI568293, AV750565, AI525653, AW020397, AI541321, AI263584, AI499570, AV660096, BG253033, AW023884, AW020634, AW949477, AV702794, AW955902, AW954384, AW023863, AW952414, AW021178, AW963879, AW961253, AW965840, AW963028, AW950220, AV688667, AW022826, AW963490, AW958647, AV654896, AW953930, AV685966, AV709869, AW963915, AV690007, AW953657, AV728806, AI538564, AW950223, AW954031, AW949453, AW952439, AV727990, AW950247, AV722222, AV702932, AV702026, AV705341, AV707024, AV701620, AV707296, AV707767, AV704182, AV697638, AV729462, AV703472, AW019988, AI522052, AW023351, AW020931, AW020328, AI636727, AI871660, AW004606, AI884318, AI633125, AW022308, AI579901, AW152182, AW020425, N25033, AW950438, BF811804, BF766531, AW021693, BF669151, AW022299, AW022981, AW020406, AI557238, AV753074, AW966420, AW021182, BG122005, AI701097, AA282824, AW953967, AI935799, AW960594, AW949931, AW953787, AV696791, AW952457, AI557808, AI887381, AI909697, AW961037, AW957058, AW023469, BF247298, AV687527, AV686414, AW965144, AV728592, AV683272, AV683443, AW951618, AW955082, AV708834, AW953974, AV686346, AV655425, AW960622, AV651436, AI283760, AV646347, AV725055, AV660773, AW959837, AV683513, AW961388, AV703222, AV703168, AW955447, AK021892, U06944, AF218031, AX015915, AF122922, AL117587, AF273680, AK000418, A77033, A77035, AL080139, AF267849, L35261, AF130056, X95310, A52184, AR038854, AK027052, AL133623, AL389982, AL117416, AK000414, AK025435, AK027209, AF124728, AL137292, AF232009, AF082075, A44314, Z13966, AF200464, AK026762, AB040710, AF060555, AF124396, I32738, AL161628, and X82397.</p>
HFPHF52	815	105530 4	1 - 2758	15 - 2772	<p>AU130348, AA203203, AU137741, AU118352, AU139258, AV704315, Z78344, AV753316, AA033956, BF514743, AV703009, BF959037, AA460030, BF959893, R68616, W01743, BF962431, AV721634, H08927, AA065274, AV695644, R90946, R07050, N92694, AA328671,</p>

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HBNMF62	816	105538 1	1 - 846	15 - 860	AL537976, AW956448, H07075, AA324184, AL520712, BE741654, AL524606, BG033728, BE794207, BF348472, R87835, AA378653, BF313918, AL537255, BE267461, BE267321, BF912788, W27716, AA136431, AU119617, AL133100, AK000538, and AK001070.
HTPHO72	817	105542 6	1 - 1804	15 - 1818	AL515354, AL535230, AI344225, AL515353, AL536975, AL535399, AL533863, AI654097, AI935237, AU142576, AI016651, BE910134, BE872446, BG260941, AU143745, AL535398, BE439406, BG115401, BG034018, BG027510, BE782872, BF695570, BG260932, AI762092, W51807, BE146116, BF694327, BG253458, BE779739, AW893944, AU129145, BF698576, BF700754, BF573679, BF129881, AI970194, BF665235, AW611571, BF591202, BE706104, BE567334, BF433874, BE146266, BE146334, AL040782, BF571654, BE961109, BF213184, AV711990, BF666541, AI434757, AI809575, AU151324, BF436559, BF941072, BF666197, BF572918, AI380628, BE877752, AI765338, AW780337, BE866436, AI860828, N35551, AI312100, AI888850, AU160791, N38846, AU159863, AW131269, BG029915, AL120373, BE047581, AI184923, AA176692, AI683921, AA174146, AA412655, BE501002, AW898306, AI347273, AI276633, AW102943, N26499, AI422695, BF130425, AA588551, BE503660, BE208291, AA226075, AI827056, BF875808, AA130382, AW439736, AW264891, AI365107, AI992306, AI148231, AA984929, AI148984, AW150079, AI832181, BF209487, AA854340, AI038905, AI269468, AI769880, D44928, AI863221, BF941118, BF132158, BF955433, AI125729, N39373, AA598676, BF208879, W74515, W74727, AW168399, BF038829, AA835921, AA471029, AA412541, AA121750, AA225920, H45060, N38937, BE146178, AV714470, R59338, AA984875, BE090546, AI587527, BE156359, R66182, AA877664, C03753, AA503281, BG009124, AW768657, AW975255, AI270523, N71517, AI583706, AI475197, AA121696, H03152, N90562, AA664776, H40657, AA171666, H87950, BE221773, AW841003, H22889, AW069437, D29581, AA345955, H03959, T07680, T29262, H27853, N29944, AA334350, HI3366, AA298274, AI865965, AW951202, T30144, C02396, BF336094, BE928330, AA328738, AI863521, AI375079, BF688070, AI572168, BE697724, R79702, AA169304, AA709200, R72957, AA420636, AI933880, F09514, H06035, AA169629, BE697960, R67062, AW190063, N22142, N71849, R59337, AA335367, AW379738, H88342, N79599, AA318557, N46507, AA435823, BF093500, AA397882, AI049760, AA810637, AI857295, AW150981, BE176219, AW150797, W31502, BE697727, BE901570, BE176161, Z39877, F10482, R63552, AI003042, AA171671, BF810987, AI905110, AW168890, AI123901, W19066, BE816131, W20205, AW893945, AW893929, BF965877, T25159, BF438299, BE730723, D81615, AI634225, BF972281, BE280037, H45029, BE697716, AA664611, AA213866, AI247193, AI590830, AI633419, AI681985, BG256090, AI288285, AI554821, AW983754, BF792961, BF925729, X78669, AR048126, AR087768, U15734,

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HOPKL18	818	105543 9	1 - 2280	15 - 2294

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	819	105544 6	1 - 885	15 - 899	<p>XG3574, AL117648, A08908, AF218034, AF028823, AK026522, AK026541, E06788, E06790, E06789, AF132730, A08912, AL110225, AF113691, AK000418, A08911, E00617, E00717, E00778, A08907, AF130056, AL122049, AF113013, S36676, AF130055, AK025084, AK026762, AX046842, U57352, AJ012755, T52720, T52721, T87155, T87238, R21756, R22238, R22917, R23953, R23954, R25598, R25941, R26555, R26751, R26856, R26956, R26994, R27080, R27085, R27452, R28596, R28653, R30948, R30998, R31537, R32550, R33131, R33283, R34255, R34675, R34777, R36093, R36188, R36706, R39571, R39639, R66739, R68070, R69324, R73869, R75758, R78886, R79230, R79500, H01528, H01697, H02309, H02383, H04616, H12885, H39914, H61219, H90783, N30707, N56809, N57070, AA028036, AA034203, AA045500, H90733, AA639454, AA917859, AA291053, AA400779, AA905393, A1093861, and AW341923.</p> <p>AA890595, AL036333, A1040915, AW007541, AV721272, BF439791, AW959421, AW083887, A1654275, AV722199, AA808896, A1800095, BF438031, A1355440, A1799635, AW604976, AA576448, AW006257, AA630283, A1559991, BG179455, AA743625, A1652663, AA151139, A1144203, AA604807, A1984722, AA194391, A1589272, A1755275, A1271562, A1560118, BF822480, AA151140, AW302262, A1167873, A1332444, A1801686, AA594332, A1148030, A1142313, A1090644, A1803537, A1373476, A1336084, AA554043, A1146489, AW022283, H29466, A1049688, A1041568, BE902412, BE328300, BF593596, BF822451, AV722821, AV682616, AA492300, AW193739, R42909, AA442117, A1285963, BF941682, AA081057, AV764612, BF839445, BF821831, H50360, N26936, A1872953, N66716, A1991792, T52344, AL036332, W95685, H91241, H68058, BE326879, AA928951, BE929039, BF734080, A1765685, A1536035, AA504565, AV722859, AA505844, BF845220, AA355104, T23042, F04483, D45524, H61892, A1003120, A1933999, AA989528, BF884269, BE843668, BF093624, H92604, A1470441, F08851, H50770, AA480590, A1468163, AA969568, AA612865, AA280393, AA632042, A1090330, AW894028, T52417, AW339041, AA301168, BE717578, AW845069, AW845073, A1905180, BF923457, H92264, A1905146, A1905179, AF091264, AF042857, AF069517, U50839, AC004814, and A1006486.</p> <p>AL535115, AL535435, AL527788, AL528128, AL522629, AW964128, AL530568, BF690299, A1927433, AU143450, AU122604, AU120010, AL513898, AL528273, AU124013, AU117741, AL525487, BE512822, BE799364, A1929021, BF312371, BE747909, BE868722, BE622350, BE901551, AU134818, BG257575, BE278821, AU134124, BE278080, AU135723, BE903064, AW248980, BE267190, BF689756, BG248738, AW966750, AV722010, AA723729, BF002408, BE794373, BG168135, BE273143, BG029684, BE544741, AA573842, BE293074, BE264692, AW073760, BE869623, AA908776, AW955340, AW953331, AW629302, AW170127, BF591127, BG120515, BE883708, BE884952, BF219684, BE548925, BF678527, AA456271, BE773056, AW249233, BE267954, A1360166, AU117779, BE262787, A1363345, BE167602, BE888509, BE298528, BG058608, BG117800, BE257040, BG113720, AW247642,</p>
HBAAE59	819	105544 6	1 - 885	15 - 899	
HTXKD84	820	105546 7	1 - 1833	15 - 1847	

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HTXRR82	821	105548 0	1 - 1663	15 - 1677	AL525841, AL528084, AL523788, AL530647, AL528085, AL530205, AL525887, AL523789, AL530206, AL530648, AL530020, AI741904, BG111251, BE783284, BE304619, AW246206, BE409176, BE797194, AW249939, BE896428, AA631248, BF837752, AI262225, AI076571, AI379987, BF760075, BE791843, AA747742, AW182741, AI039409, BE791484, BE898142, BE171695, BG008706, AI266555, AI470348, BF351795, R08484, AA316496, BE246277, BE243727, AA628030, AA034425, BF842855, BE243741, AA053916, BE273715, and AK026518.
HAIBU62	822	105558 2	1 - 2394	15 - 2408	AW960778, BF670863, AI891069, AI760315, AI658836, AI802396, AU145031, AU147448, AA857432, AI564713, AA191075, BE180121, AW007299, AI082050, AA923198, AA581379, AA228040, AI383961, R45310, AI828459, AA228150, AI655170, AA227869, AA292098, AU121676, H29021, BF733569, AU118481, AA191665, BE706359, HI3408, AA291928, AA954433, H29122, AA345806, R20228, AA337411, BE465193, BE561996, R43321, Z41361, AA748172, AI915244, AA730958, AW381210, BF508602, AI017072, AA227488, AI784588, AI913410, AA960809, H06070, AV745980, W20332, BF671807, AA634199, AA362928, AF148848, AF076249, AK021646, AF155508, and AL133070.
HDTAY29	823	105563 2	1 - 1296	15 - 1310	AI655115, AW969080, AW340416, AI088414, BG168598, AU133786, AI766935, AW955824, AA432162, AI243534, AI355372, BF813174, AW340370, AA001958, AA127678, AA001942, AA121541, BE089820, BE089818, AA149985, AW996875, BF514913, AI806604, AL048412, BF663006, AA431143, BG167354, AI784544, BE005808, BE178989, AI219527, BE178950, BE005809, AA136529, BE172359, BF799552, BE178947, BE005724, AU144539, BE178953, AA026727, N39996, BF665736, BF184492, AI982645, BF246646, BE005719, BE005823, AI806323, BE005602, BE005615, BE005617, AA026615, BE089808, BE005616, AA992408, AW593294, AA993913, AW629540, BG036581, BF665789, AA043644, AA504274, AI863566, AA916510, AA904815, BF438331, BE765047, AI968518, AW629858, AA831295, AA152142, Z28590, AW378121, BF915893, Z19353, AW607533, AW999039, N27265,

HCOQD79	824	105576 7	1 - 1192	15 - 1206	AW510968, BF973883, BE766024, AW999704, AA525208, BE939841, A1651184, AW606060, AA001335, N83663, AA001281, BE005677, AW999551, AA897151, BE005649, AA029860, BE868845, AW582793, BE005713, AA136752, AA332736, AF245356, AF245357, AR093962, AJ250865, AF260225, AC073130, AL050162, AK021575, X78989, and X78990.
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HAMHN12	825	105589 9	1 - 1785	15 - 1799	BF526465, AW026325, BE542706, BE542707, BE855427, BF196774, AA864639, AI287672, AI885416, AI424243, BE855854, AW577426, BE858918, AI276664, AI342436, AI420272, AI298488, AW602166, AI732365, W79647, BF589550, BF437295, AA889422, BE677567, AI420762, AA228426, AI686213, AA224927, AW339154, AI146289, H93603, AA574391, AA228353, H05698, AA694242, AA224998, AW629590, AI000160, H93602, AW613178, AA631694, N90717, AA256985, W74079, AA256986, H27807, AA639700, AA781512, AI247191, BE856659, AA256485, AA333630, AI468186, R83652, H44430, C01115, AI380982, R83651, AI350743, AW577102, AA256868, BE817585, AI674835, BF330948, BF330943, AJ400877, AJ400878, and AF086390.
HODIY67	826	105600 0	1 - 4308	15 - 4322	AL524194, AU133020, AU118936, AL524193, AU119223, AU122342, AU121697, AI961260, AU133891, AU139520, AV710009, AV728811, AI335254, AW163596, AU127807, BG164222, BE886798, BG028956, AI798785, AI650480, BE932104, AA311103, BE541225, AV694234, BE780965, BE220832, AJ040228, BF197063, BF434796, AW162882, W05746, AI267777, AW965426, AW386260, BF509507, AI768758, BF110042, AA746489, BE645065,

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HNTR557	827	105609 7	1 - 1585	15 - 1599	AL537894, BG258704, BE047764, BE868736, BF340077, AI801416, AI762850, BF434262, AI742931, BF439373, BE644804, AI138559, AI797233, AW188187, AI380612, AI522102, AA868281, AL043757, AA426266, AW473173, BE645012, AI016269, BE207382, AI950202, AA910365, BF115501, AW051847, AA453144, AI263901, BF590758, AA425975, AW662298, BE281125, AW673734, BF512736, AW025120, BE645067, AI866541, AW299359, AA410629, AW263141, AI801012, AI472095, AI127189, AI088811, AW571861, AA836887, AW516893, AA502586, BF439167, AA676768, N92308, AI038102, AI632072, AA875868, AW516321, AA902731, AI274022, BE138815, BF125686, AA863351, AI721215, AI963518, AI468226, AA235644, AW969404, AA161034, F27866, AI910725, AW000879, AA741323, AI289063, AI354994, AI139962, AW104375, AW194619, AW614642, AI537733, AW169223, AI990330, BF437477, AA554004, AA973055, AI673688, AA291376, AA460182, AA410817, T73725, AI940057, AA403305, BF745263, AI940055, AI940052, T73700, AI142749, AW614314, AI918714, AI364787, AI985850, AW340231, AW080372, AI749845, AV747392, AI686667, AI814114, BF746001, AA902525, W24702, AL048891, AA758059, F37331, BF745253, and AW372234.
HUKFL74	828	105610 2	1 - 2429	15 - 2443	BE796779, BF314720, BE296316, BE311402, BF206459, BF313266, AW245438, AL134658, BE728308, AI991631, BE294807, AI991255, BG111031, AW001543, AW245796, AI830089,

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HTEBF05	829	105610 4	1 - 767	15 - 781	
HOPKD19	830	105627 5	1 - 1454	15 - 1468	<p>AL514608, AL528469, AL528936, BE746015, AL521772, BF690094, BE790826, BE790935, AL518173, AL515593, AL518172, BE742331, AI191053, BE729223, BF530756, BF312746, BE792243, BE901574, AL515819, BF664201, BE795515, BE900232, BE887232, BF303634, BE535191, BE729997, BG177383, BG248306, AL529609, BE544736, BG106483, AA826340, BF982191, BG253167, AL515592, BF982788, BF525820, BG108991, BE728913, BF974236, BF528108, BG031382, BG031585, BE777805, BG19661, BG121579, BE264024, BG167191, BE791853, BE378819, BF797508, BE549254, BF980530, BF797481, BE778043, BG028063, BE745313, BE563774, BE782976, BF794209, AI625492, BE909865, BF345302, BE543174, BG250283, BG250199, BE544765, BE379191, BE543875, AI434163, BE778018, AI188794, BF309788, BE545242, BG117942, BG110383, BE251838, BE898982, BF308052, BE409243, AI986077, BE545315, BE389907, BG117495, AW001257, AI499406, BE275460, AL514607, BF314282, BE276384, BE383327, BG259890, BE389361, AI608736, BG115641, BF237552, BE536648, BF315248, BE548410, BE277397, BE389020, BE304445, BE255993, BE734099, BG112690, AW172971, BE544670, AI609082, BE900812, BE784989, BG027636, BE744256, AI624012, BF128698, BE257241, BF316397, BG258382, AW575251, BF307121, AI735180, BE535951, AW575944, BE382554, AW572325, BF439251, BF337954, AL515818, BG025498, BF526215, AW951827, AI818207, BE388264, AV702179, BE389281, BE222313, BE276340,</p>

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HLICR58	831	105629 0	1 - 1586	15 - 1600	AI276692, AI279505, AI279509, AI591123, AI350685, AI611229, AI696324, AI818153, AI863448, AI870631, AI913875, AW007818, AW009666, AI992109, AW150116, AW196102, AW262544, AW302476, AW511649, AW591854, AW613471, AW615329, and AW627394.
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HISBE12	832	105637 6	1 - 2587	15 - 2601	AU133566, AU134630, AU137852, BF672805, AU138245, AW953092, BF574374, BE069938, AA418061, BF126477, AV704855, AV733475, AA490669, AI126748, AW021070, BF107314, AW169111, AA044844, BF432458, AW963336, AA917826, AI859443, AA402341, AA134033, AA772171, AW261848, AI979109, AA411838, AA827550, AA993572, AA490670, AI689396, AI564514, AI589042, AI962882, AI951442, AI457657, AI274779, AI126270, AI859726, AA846743, AW139081, AU155829, AI887980, AI560718, AI131563, AI160023, AW139075, AI244973, AI288216, AW167802, AA449011, AI092410, N71091, W23461, AA001805, AA024894, AA771989, AI332470, AI362305, AW022540, AW129473, AI357333, AI524525, N40765, BF106969, AI276660, W72460, AA099736, N70641, AA417957, AU157537, AA563938, AI355584, AA860530, AI734946, AI344521, AI185811, AA954648, AU155547, AW166786, AI028138, AI276661, AW771189, AU157338, AW419084, AA452645, AW168035, N90530, AI801066, AA983225, AI041476, AI424177, AW152395, AW189459, AI344395, AI015682, AI127313, W76518, AW014696, W05460, AI266450, AI689224, AW515862, AI016555, AI298435, AW024736, AI569566, AI095864, AI475928, AA614454, AI539532, AI630231, AA056733, AW591105, AI874113, AA133968, AA934658, AW474609, D82422, AI031797, AW513075, AW129011, AA099737, N40768, AI579994, AW150847, AA058387, N22767, AI690491, AA226177, AA226521, AI299561, AW518280, AA781624, AI138761, AI680522, AW088795, AW194041, AI318244, AI973210, AA027095, T57193, W44853, AA693819, AA860686, N30057, AA825328, AI889552, AI913873, AW050479, AA005320, AA737576, AA010720, AW572031, AV740811, AA843163, AA782544, AI026970, AA772466, AA450017, N71006, AW590986, W32273, AW152339, AI804555, BE169187, AA001714, W32000, AA993329, AA347504, AI263677, AW591684, R91853, AI824356, AI470261, BF431703, AA386154, AA772584, AA632359, AA863458, AA860713, BF574018, AA004243, N94949, AW132079, W32023, AW513318, AI191171, T57088, AW151046, AI289935, AI678407, AI800349, T55946, W05488, R92692, AV744992, C75173, AW512959, BF358693, BE939009, H13885, D62503, N30060, AI623948, H22323, AW473204, AI344807, AI564394, BF889143, AA450366, T97372, AV741769,



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HAJAH48	833	105640 0	1 - 934	15 - 948	<p>AW813259, AW813211, BF375077, AI910050, AW966053, AW966534, AW978634, AW966531, AW949633, AV699927, AW975618, D51423, AV720203, D58283, D80391, AV718440, AV720028, AV718770, D80166, D80038, D80196, D80195, AW975621, D80253, D59619, D80210, D51799, AW960553, D80240, D59859, D59927, AV719822, AW966054, AV718489, AV718692, AV719188, AW973307, D80227, AW966062, AV719324, AV719783, AV699447, AW959628, AW959570, AV718800, AV720211, AV718844, AV720464, AV719557, AV720731, AW959582, AW965177, AV722801, AV723927, AV724520, D80212, AV699550, AW949656, AW949642, AW966013, AW966041, D80188, D59889, D80219, D81030, D80269, AW949641, AW949645, AW949657, D80043, AW959597, AW949618, D80193, AW964488, AW959202, AW978661, AW965158, AV719468, AW949655, AW949629, AW966050, AW949632, AW949654, AW949631, AW949643, D80366, AV723097, D50979, D80022, AV720812, AV721386, AW966043, C14429, D59275, AW949646, AW973447, D80164, AW949653, AW949658, AV700889, AV720791, AW960465, D57483, D59787, D50995, D80045, D80378, D59502, AV718633, AW975605, D80024, T03269, AW959799, D59610, AW965197, C75259, AV720654, AW973485, AV718931, AW964737, AV742001, AV742667, AW965185, AW966022, AV701125, AV701335, AV701166, AV701043, AV701332, AV701017, AV701248, AV742048, AV701431, AV700229, AV699669, AW959469, AW978648, D80241, C14014, AW965176, AW973541, AV719628, AW973334, AV681510, F13647, AV681491, AV699682, AV719049, AV701419, AV742430, AV701154, AV718707, AW964756, AW966065, D59467, AV645389, AV718938, AV645344, AW964477, AW956434, AV699746, C14389, AW966029, D80134, C15076, AV701443, AW752082, AW965163, AV645343, AW958992, AW958993, AV699479, AW959136, AW959062, D51250, AV701130, AV701149, C14331, AV701422, AW962245, AV719913, AW966075, AV719000, D80268, AA305409, AW973474, AV744770, AV681529, AW960473, AV718530, AW966560, AW956397, AV718674, AW965184, AV720220,</p>

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HEEBK29	835	105645 4	1 - 4861	15 - 4875	<p>             I03343, A81878, AR069650, I03664, AI5078, E00523, A58524, A58523, V00745, AF156296, AF261959, AF261960, AF261966, AF261962, AF261963, AF261967, AR036903, D28584, AR022240, A11245, A02710, E12615, AX018504, AR035193, A92133, E14304, A07700, AX027811, AX027809, A13392, A13393, I19517, AR096518, A27396, AX027813, AX030369, AX030368, A76773, E13740, AX000085, A22413, AR027100, I28266, AX042377, AX027812, AX035980, AX027810, AR091518, AX027816, AX042375, AX027817, AX027818, AX027814, AR085082, AR085089, AR085091, AX042373, I13349, A49045, AR085079, E16678, A82653, AR085083, E16636, AR074365, A93016, AR093392, AR072500, AF261968, A35536, A35537, A02135, A1814000, and A1932552.           </p> <p>             BE745399, AL522262, BE908201, BE906253, AU125614, AW089583, BE621787, AW243446, AV690793, AW192502, A1858615, A1890773, A1970297, AW080065, BE621228, BF475568, A1814791, BE621889, AW960683, AW439633, AU127824, BE046311, A1963657, BF114979, AW090100, AW513648, A1262027, AV696242, AW341634, BE973619, A1963327, A1433025, AW302356, BE620975, AU149236, AW070352, A1806420, AV727879, A191026, W67512, AA548361, A1185836, BF880354, AW771451, A1815002, AV727686, AW007829, BE677332, A1123019, AA909672, AW514323, AW172713, AW604822, AA565581, A1741211, AW264387, AW380912, AA156812, A1951055, A1884448, AW243679, A1138743, A1922781, AA676839, BE389394, AA317453, BE075417, A1744347, AA063600, BF941222, A1278214, AA780893, BE392908, A1138737, A1372874, AA826478, BF476022, AW088824, AA428436, A1433274, AW074533, H66739, A1348515, BF594677, BE908514, A1087015, AA493387, A1302133, AA742411, A1610422, AV698069, AW303594, AA036681, A1679072, A1985287, A1676253, AA156716, AA983385, AA099281, A1382076, A1204685, AW517675, A1299065, AW515199, W68125, AA443895, N65966, A1628488, A1138741, A1445997, H66738, AW193226, A1499793, A1129495, H43558, AA429214, H42969, AW192218, AV689623, AV691878, A1589031, AV660284, A1888422, A1873783, AA746039, A1985285, A1434459, N95436, AV688537, AA738493, H92124, AW268393, W03866, AA913077, A1537365, A1273983, A1249320, BF312684, H42899, BE466338, A1809446, AA099280, W01930, A1633945, AW771119, N55529, A1129773, W24048, W73426, A1288122, BE906823, W73381, AA826526, AA969783, R94455, A1129884, T03693, A1245885, AA961183, A1866118, N46259, N73753, AA910025, H43559, N81029, AA846611, A1217549, AW515007, AL047369, A1382852, R66548, A1610829, AA927406, F12821, A1625372, AW339822, AA449955, H27222, AA193615, AA888180, H08667, A1372912, A1928559, A1915591, T57021, BF943560, A1634405, AA009986, A1223972, AW513899, T72813, N80311, A1241051, BF061815, AW075328, AV685591, R66549, AW136127, BE166191, AV693190, BF530633, H47698, AA295509, R94163, N94227, AA444089, AV697388, AA380196, BF436805, AA478750, AA582325, AL040492, N71032, BF057259, AW137045, BE965435, A1872536, H08668, H28576, W81416, BF568352, AA699883, F02853, A1926224, A1964083,           </p>
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HCHMM19	836	105661 7	1 - 1725	15 - 1739	AL534327, AI096506, BE378797, BE392697, BE388530, BE563058, AW965878, BE392233, BE392568, BE562786, BE816336, AW602150, BE816332, BF724233, BG012790, AW950293, AW088625, AI623455, BE259257, BE816333, BE712877, BE712851, BE712863, BE712874, BE712876, AW445054, BE392522, BF339456, BE869413, BF353807, BE730799, BE712859, AI378021, BE712921, BE712852, BE712926, BE712924, BE562748, AW089470, BE712978, BE712856, BE712865, BE712923, BE712992, BE712869, BE712985, R54862, BE712979, BE712983, BE713014, BF877112, AI334787, BE712858, BE712997, AW089731, BE712969, AW148926, BE712993, AI565144, AW102888, BE712896, BE713017, BF829674, AA477654, AA410250, R53118, BE764760, BE392951, AW058228, R52267, BE712973, AI688979, AI744763, N59116, AI061201, R73552, AA410601, AW072414, R54001, H24954, AW243859, AA479843, T53386, BE693883, BF792651, BE712906, AA402649, AI653791, AI499132, AI886419, AA359265, BE712928, BE712931, R48059, BE712934, BE712927, AI887407, AI830659, BE712940, BE713027, BG010635, BE712909, BE764724, R48045, BE712950, BG164045, AA402646, BE712952, AW770834, BE713018, BE713010, BE713009, BE713013, AA411137, BE712949, AI653885, BE712913, BF873070, BE713011, AA358698, AI873371, AA633384, R52266, AI174895, BE713028, AA322308, BE713024, BE713016, BF761627, BF873089, BE713022, BE713026, AA291585, BE712958, AI804837, AI432124, AA394269, BF876486, AL534328, BE713030, AI524776, AA358907, BF876484, BF829815, AA293640, AA430383, R47936, AW193891, AA410602, AW473257, AA411455, AA427751, T53385, AI537722, AA236709, AW028475, BF875028, AA477340, AA427752, AI288000, R06662, AA411583, AA406031, AI860014, AA479650, BE139492, BF353825, AA479720, R35771, AW130914, AA430736, AI684263, AA479554, BF931748, AA428857, R63600, AI870177, AW103389, AW194324, BE712932, C05050, AI538811, AI887289, AA481946, AW150649, BF749660, AI914715, Z19749, AA476975, BE869834, R54871, AI918638, AI684209, BE613048, AA757345, AI525964, AW150617, AA430560, AA402931, AW338545, AI283299, BF740522, AA426533, AA290786, AW438957, AW793096, AA292401, AW439076, BE076592, AA367777, BF036210, AW793132, T47453, AI538248, AI524589, R72922, AI689706, AW450212, AI241778, AW302585, AI683101, AW275299, AA284900, AA989478, BF745978, AW381828, AI873903, R47950, AI918551, AI873999, AA890124, BF445784, AI591415, AI364586, AW593602, AA428332, AA433977, AW089004, AI524580, BE699717,

HE8NG02	837	105662 5	1 - 1215	15 - 1229	AA404739, BF851920, AI648604, AW303547, BE150661, BF825743, BF834926, X83425, X80026, AF270512, AF221507, AB035511, AF246667, A75386, T51317, and AA292790.
HWHKD22	838	105665 4	1 - 1310	15 - 1324	AI123839, BF439260, T12179, BF679243, AI039039, AI146280, AA236166, AW962409, AA297231, AI147044, AA453695, T12180, AF191770, AF191769, AF191768, and AL035608. AI829903, AI986119, AI633646, A1769747, AI984540, BG055419, AW518841, AW337994, BG259048, A1769807, AW518894, AI610118, AW566008, BE674641, AI354761, AI696473, AU150348, AI371756, AW014492, AI815233, AA205305, AA442702, AA811626, AA418029, AV747886, BF884881, BF969470, AV747168, AA808125, AW589703, AI680927, AI632886, AA418089, N70046, AI825035, AW302373, N25678, H39858, AI298620, AI915190, AW770054, R86213, BG149822, N64316, AA810844, AA846497, H28050, AI916429, AI299340, AA633452, BG054552, AW518887, BF447929, AA496038, AL536729, BF446446, AW771301, BF857012, N55216, BF857010, and AK022876.
HOCPI87	839	105666 6	1 - 1484	15 - 1498	AL518904, AL518905, BE616371, AI828880, BE615355, BE531320, AL513808, BE616160, BE531166, AL530739, AI436189, AI829057, AU119325, BG252803, BF002498, AI192809, AA836407, AU116821, AW006012, BE543906, AA477822, AW170329, AA580307, W74534, AL041460, AI333563, AI589612, AA569804, BE857996, BE780663, AI126528, AI718912, AA428893, AA507376, AA424547, AA769260, AI291503, AW974150, AA410533, BE925853, AA478220, AA022829, W79545, H28373, W84807, AI149621, AA284250, AA410308, BF845479, AA424635, AV749126, AA838115, AI126137, W79363, AW801410, AI221412, AA934373, W01406, AI923931, A729488, AW613142, BG167622, AW518106, AI357146, W84808, BF737247, AA253039, N70789, H25595, AW801537, N68230, AA022828, BE812559, AW801332, AA352675, AW176646, AW401979, AI749443, AA292613, AI985391, N36778, H28398, T29515, F08556, N45939, N77827, AA193262, H25550, AW751653, AA937981, N28457, AW081522, BE000431, AA814116, BF748285, BF760942, BE183148, AI188907, BF056502, T25961, AW366647, AI340862, AV686817, AV689385, BF986723, N87297, M25393, S52655, M80739, M81477, X58828, and M81478.
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HUSGX12	842	105673 6	1 - 2100	15 - 2114		BF115810, AI762621, AI742202, AV697686, AA446863, AW028794, BF590994, AI394107, BF591454, BF513446, AI221779, AW052092, BF063224, AA535268, AII83672, BF514504, AI917745, AW296681, AW297154, AI802689, AA778418, AII22998, AW471212, AV685546, AA902908, AII93482, AI610870, BF054957, AV690497, N81132, AA476226, AV689052, AA677378, AA476227, W07484, BF478080, CI6879, BE834460, AA446978, H77651, N75843, AW296006, BE834454, BE834440, BF002638, AA621641, BF513325, DI2199, WI9304, W07640, AI354319, AI475969, AA906878, H77652, AL134524, AL045327, AL134110, AL045328, W07635, AW968212, AW969911, AW970050, AW969988, AW970070, AW969748, AL047163, AW601637, AL042898, AW972357, AW972220, AW974660, AW970025, AW970101, AW971738, AW858522, AW968204, AW970053, AW970079, AW968336, AW968207, AW969778, AW970084, AW972594, AW976022, AW973652, AW970094, AW975147, AW971172, AW970108, AW975628, AW975391, AW970107, AW970540, AW972724, AW979227, AW979127, AW975158, AW971301, AW975685, AW968181, AW974098, AW975434, AW974378, AW971725, AW968215, AW968200, AW972273, AW975061, AW971207, AW975031, AW975383, AW972279, AW969996, AW969634, AW971126, AW971114, AW971038, AW968196, AW968347, AW972845, AW979037, AW978995, AW969784, AW971042, AW971290, AW979105, AW972686, AW979136, AW979238, AW974805, AW975443, AW968340, AW973774, AW968168, AW969653, AW971184, AW972897, AW974871, AW970076, AW577201, AW969624, AW969823, AW969734, AW969864, AW969664, AW970020, AW969862, AW969809, AW976024, AW969826, AW974390, AW970105, AW861914, AW969798, AW969648, AW969876, AW969848, AW969888, AW969934, AW972665, AW969936, AW969961, AW979161, AW970093, AW971940, AL037295, AW969916, AW970014, AW969621, AW979138, AW972212, AW969926, AW969958, AW969631, AW969651, AW970095, AW970118, AW972229, AL038838, AW970074, AW970032, AW972218, AW971299, AW970069, AW970096, AW968190, AW970023, AW974346, AW969691, AW976040, AW969698, AW970531, AW969632, AW970122, AW970115, AW971737, AW968338, AW972380, AW972372, AW969697, AW970886, AW970003, AW972362, AW972835, AW970075, AW969625, AW969677, AW969626, AW970859, AW968147, AW970036, AW970054, AW969642, AL037343, AW968148, AW972228, AW968150, AW971187, AW970619, AW972849, AW974096, AW972717, AW975019, AW971726, AW972642, AW972926, AW969628, AL038651, AW979077, AW979080, X95701, AR088747, D87811, S82462, I22760, AF179425, U11889, U51335, AB034243, AB034207, AR066494,

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HHA WB19	845	105677 4	1 - 2149	15 - 2163	

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HHATP38	846	105678 6	1 - 1140	15 - 1154	<p>AL529876, BG167387, AI300509, BF034876, BG031449, BG164001, AI471460, AI524696, BF314865, AA633535, AW242169, AI141331, BE045747, BE221399, AI805778, BE297480, AA843665, AI571521, AI299824, AA434485, AA434389, AI569021, AA843530, AA082818, AA741539, AI805251, AV704867, AI308147, BF128614, AI091655, AI308088, BE904001, AI749633, AA746258, AA040199, AI497961, AA948212, AA040843, BF197824, AA742966, AA983317, AI371855, BE783995, AW952041, AI420031, AA469054, R56770, AA535588, AA352350, BF850175, AA292448, AI284332, BG167521, AA630120, AA400486, AA310070, AA182397, D80973, AA304346, AW770337, AW606565, BF876874, R88630, H28025, H39505, D80974, BF054728, N87395, BF054746, AA932606, AI581555, R90829, AA400532, AI720121, F32140, BF197523, R90830, AI687256, BF876828, BE157170, BE157094, BE157173, BE157093, R29477, T08411, BE157099, BF751287, BE157098, AA419103, BE157092, AA917955, AB004273, U43368, AB004274, U52819, U43836, AR060515, U43369, U48800, U52820, AR060517, U43837, AR060512, AR060513, AR060511, AR060516, AF022952, AR060514, AF032925, AF099134, U43370, and U80601.</p>
HVVBE07	847	105680 1	1 - 1125	15 - 1139	<p>BF115907, AI347987, AW571531, AW469391, AI318417, AW469530, BF732916, AW519112, AI745619, AI624640, AI148123, BF439103, AW246565, AI049532, AI141077, AW304970, BE328487, AA417098, AA838314, AA649876, AI954020, AI347379, AA614714, AU155615, AA029774, BG057767, BE350234, AI241721, AI422257, AI148124, AV721594, AI359911, N70830, AI359059, AA159067, BF968305, N67615, AI049846, AW015705, AA009674, AA373582, AI174368, T27684, T56814, AA069201, AI267963, AW118346, W73079, H81485, AA121951, AA055076, W07306, AI191548, AI808436, R40817, AA035256, AA773059, AW166460, AA773057, AI214117, N93955, AA156330, AW675349, AA872378, BE793803, BF982619, BF858206, BF858207, T29598, AW956178, AI252634, AA629421, AA055136, T56813, AA302186, H25812, AA308949, AA418136, BF208253, AW023605, AI611964, AA977778, AL524944, T50650, AW166214, AL037765, AI741822, BG036833, BF953193, AI916187, AW899528, BF207696, BE881367, AA081611, T47416, AA393875, AW496811, AL036550, BF822724, AW082037, AK025842, U60477, M64497, I89201, X76653, U07635, AF003944, AJ249441, U00697, X16155, X12795, M62760, AB012582, U16683, U50354,</p>

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HKAHB85	848	105680 4	1 - 1339	15 - 1353		AI189624, BE798410, AI826306, AI742365, AI923164, BE742614, AI523767, BE612598, BE730876, BF568739, AI743357, AI923662, AI874405, AI582377, AI951036, AI830906, AV722920, BE857117, AI864666, BE552477, AW269479, AI453638, AI658863, AI609762, AI935343, AI762473, BE251544, BE966347, BF059081, BE222650, BF434095, AI457104, AI192517, AI262763, AI312553, AI128385, BE392107, AI184898, AI208329, BE780463, BF111625, AI937815, AA156715, BE613338, AI084901, AI923949, AA156811, AW007906, AA478088, AA516138, AW194068, BF593875, AI074507, BF590787, BG054965, AI123728, AI923959, AI342586, AA725089, AI199610, AI369183, AA039529, BF000406, AW500544, AI694026, AI743576, AI285358, AW298302, BF242393, AI559628, AW803113, AV724161, AI472176, BF941760, AA135658, AV724606, AA714301, BF115666, AI830771, AW512691, AA846737, BG248683, AW006013, BE796082, BE889162, AA559059, AA887841, AA742700, AI910998, W45621, AA514670, AA047549, AA039510, H12597, BF221654, AI675498, AA075686, AW136156, AW628392, R36089, AA188215, AA340528, BE674700, H12647, T28463, BE219841, W28363, T19366, T19367, AA186362, AW044216, AA872728, BE796300, AI869260, AA419332, AA079138, BF130394, H26663, AI864116, BF182762, AI908177, AA328427, AA287370, AA425996, AI022515, AI015637, AA018470, AI935563, H30032, BF309963, T39530, H26648, AA283917, AI201855, AA018144, AW002235, AA147931, AI970783, AA074201, AA453079, AW967024, AA666180, AI767839, AI818846, AA971961, AA522463, AA971644, AI908203, W45569, BE267358, H20096, AI658744, AA524207, AA147502, AI560299, H20021, H23586, AI695631, AW028597, H19534, BF213007, AA057785, AI695962, W15192, BE392656, H30033, AI864118, AA047837, AA283918, BF315308, AA452911, T64430, AI935201, AA477630, AI911950, AW663032, BE264884, AA810162, BF183741, AA514790, AA425791, AA706619, BE378391, AI249587, AA135599, BE817810, AA399044, AI792444, BE872189, N78686, AI054233, AI053971, AA018145, AI191224, BE049111, AI523309, X12794, AF003926, X76654, L25674, and AW002470.
HUSXA15	849	105681 0	1 - 290	15 - 304		AL524678, AL525517, BF968916, AI954468, AI567133, AW300897, AI669011, AI660855, BF448589, AI635690, BG236776, AI815794, AW874612, AI480193, AI366904, AI537283, AW593618, AI817467, AI751715, AI366942, AW593632, AA459301, BE047378, AI016670, AA477441, AW161913, AW161619, AI926577, AI859809, AI983583, AW001554, AW264376, AA284935, AA404681, AW088937, AI038308, AW440417, AA653631, AW262712, BF115584, AA058887, AI984462, AW249502, AI798533, AW172776, AI750245, BG056549, BG055715, AW131904, AI864472, BG223340, AI434101, AI219769, AI028334, AI476359,

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HNOCH54	850	105683 9	1 - 2156	15 - 2170	BE260056, BG035487, BF344378, BF526374, BF984346, AL042576, BE260510, A1978623, AW961029, AW410058, BE314256, AU134349, BG253002, AW964329, BG031222, BE783064, BE395235, A1818399, BG003227, BF087734, AW995362, A1038345, BF313051, BF087860, BE205802, BE350196, AA699733, AA921973, AW967225, A1033886, BF758009, BF087837, A1365948, BE712425, AW615817, AA430575, AA219262, A1921951, BG031861, N42316, A1219706, AW297541, BF087848, N29539, BF996630, AA113157, R11659, AA478187, A1051886, A1805015, AA961539, AA478030, H98088, T57479, BG015611, AA878785, BE712676, H53625, AA350477, AW247055, BE939228, AW751613, AA599679, T77392, T49353, R12265, F13292, H53664, R45397, BF932652, A1288384, AA338766, AA350476, AA430576, R39518, T49352, A1221193, R25058, T16558, BE931199, AA299814, A1240918, AA350478, AW630432, A1368888, Z41335, A1241134, N57473, F10891, Z44605, BE887369, F08331, F05060, BF378261, AA321390, T57507, T32113, A1798318, AW197803, AW874491, R45833, AW250407, A112401, F03653, BG004651, T08801, A1547229, BE168979, A1926462, BF378510, A1905001, A1719695, BE184647, AW273717, AW878730, Z24861, BF038255, AW860261, BE168984, AK025946, AF035292, AB014557, and AC009955.
HOCPP16	851	105685 6	1 - 1027	15 - 1041	AL522455, AL528025, AL532452, AL523902, AL524678, AL528052, BF340685, AL525320, A1815794, BF526000, A1800143, AL527163, BF337577, BF116185, A1926577, BF206655, AL530392, BE383255, BF206587, A1480193, A1499226, BF207314, A1669011, BG257349,

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HNOAH83	852	105686 2	1 - 1537	15 - 1551	AL529607, AL525913, AL536158, AL520415, AL520414, AL526120, AL529606, BE871581, BE799282, AU119186, BF337601, BE908277, AA826247, BF344321, BE273446, BE797849, AI127898, BG115251, AI809875, BE880755, BG169799, BF525762, BF526032, BE907671, BE872651, BE407091, BG119008, BE908601, AL529168, AI529167, BE910353, BE868097, BE548520, BE617451, BE250135, AV707005, BE870326, BE898755, BG251022, BE311912,



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HODGM46	854	105692 7	1 - 870	15 - 884	AW963219, BF924687, AW407007, AI125143, Z36862, BF817511, AA847341, AL044966, AA837771, AA582746, AA557945, AA610255, AA368329, AI732911, AA579082, F35684, AA522864, AI459879, BE049455, R67701, BF934303, AV732057, AA635150, AU147226, F26395, AW021674, AI633386, AI559720, AW028376, AV730440, BF950367, AI468993, F00937, AA745302, AA846046, AA640563, AV760155, AI251024, AW237903, AW089395, AW471494, AA354868, AA158549, AI915081, AI370470, AI445699, AI538404, AW275432, BE156328, AV714079, AF236698, AI444575, AA507990, AU159329, AA219166, AI308529, H47461, W69639, BE409402, AA610644, AA825954, BF724945, AW407679, AV649510, AA015948, BG059924, AI367551, BF815277, W45215, AI572680, AA351868, AA506734, AA368659, AI636734, BF914861, AA507291, AA569206, AI246386, AW979184, BF965924, BE207536, AW238016, R79396, AA935827, AA578245, BF772886, AL135490, AW196288, AI520984, AI828721, BE889093, AW029626, BE149998, AA661590, BG178582, W45416, AA460786, AI355246, AA155817, H29914, H68343, AI888050, AI921765, H79277,

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HRABO80	860	105721 9	1 - 2303	15 - 2317	N73970, BF47084, AI755166, BF061416, AI920880, AI925857, AW072087, BE044048, BF754597, AI215589, AI354891, AA659919, AI271925, AI635236, AI248143, AA419156, R74346, AA419119, AA477132, AA326493, AA904372, AA477379, R74443, AI187966, BF941777, T33009, N91382, R72137, BF928844, Z45408, Z41119, AA666033, AA385063, BF448827, AA349368, BF196368, AW953123, BF941802, BF940219, R72086, AI932928, BF849745, BE707723, AA091149, BF090935, AI040362, AI264069, AA464975, AI346211, R55970, N99981, AA133535, AI276142, BE466055, W79505, AW206373, AA115760, R08200, AI679070, AI934793, BE936729, H44191, BE936715, AI953019, R55612, AI677914, T87783, AA465043, AC005237, AL050143, and AK025374.
HADDF30	861	105726 0	1 - 1524	15 - 1538	BF035536, BE466525, BG249577, AI923884, AA181023, AI420093, AA234461, AI580216, AI818510, AA186658, AI079954, AW150282, AA236533, AW851143, AA056421, AA132695, AI823407, BF768062, W39381, W38356, N79807, AI537664, AA913663, AI808322, AA913197, AI758115, AW974105, AA569156, AW609148, BF852368, AW605579, AW609171, R01697, BF852380, BF242772, BG033123, AI473441, R68282, AK025934, X54989, S69002, M21829, AJ001482, and S82592.
HDAAS58	862	105727 2	1 - 737	15 - 751	AL519465, AL529166, AA016096, AW499988, AI936646, AI905303, BF794653, AF254082, AF254083, AF254084, AF254085, AC005003, AF119256, AF242522, AL096880, and AB029397.

HSDZG15	863	105730 7	1 - 1279	15 - 1293	AI147040, BE798880, BE312862, BG112873, AI300527, BF983770, AW954404, BG178054, BG028619, BG036055, BG112301, AL526009, BF037981, BF968971, BF344098, BG026904, BG110999, AW262596, AI749037, BE745866, BF982694, BF036180, AW249503, BF805099, BE795630, BE257263, BG231995, AL526063, AI754474, AW957489, AI150184, AA740785, BG117900, AA037128, AI963804, BG024075, AA451894, AA745848, AA922673, BE719811, AI422459, BE899052, BE303058, AV722562, BG110401, BG054830, N36889, AI356068, AA037508, BF439421, AW084887, AI832951, AW118884, BG056311, AW614905, W70034, AA452082, BE873567, AI799103, AA635280, AA629610, AA045097, BE728450, AI885257, AW770259, BE793517, BE301334, AA047171, AI369408, AW340229, BF112113, AA994830, AA282268, BE539789, AI262401, N69029, BE674986, AI028014, BE208015, AA522833, AI798549, AI360652, AI369135, AW514771, AI400299, R66211, AW024945, H59917, AI982743, AI129681, BG023931, AA780100, AA026868, AI380625, N24421, AA862874, AA620584, AA568994, BE933489, T63497, BE810852, AI14064, AI865993, AA610253, AI027712, BE348870, AA622188, AI281344, AA581941, AI285021, BF035903, AI954518, R18087, AI393720, AA302917, BE899372, BG023781, AI492724, AW407782, AI350152, AA297718, H99631, AA114004, BF894564, AA024859, AI242981, AA600960, BE898463, T63572, AA026867, AI217817, AW264702, AA031944, AI092794, AA024942, AI961326, AI266633, Z41705, BF917245, AI521014, AA298499, H82753, H42029, AI720237, N46163, BE673180, AA297928, BF351017, AA530996, AI079633, AI830714, AA282269, AA057042, AA039801, BE873865, BG116527, AA045009, H28692, AI214663, R42980, AA297503, AI289504, BF891017, AA019035, AA810998, BE931598, AW998750, AA915959, BF830907, AW407164, AA032064, H41001, BE742141, BF854344, H84444, AA782807, BE513205, AI701301, AA947311, H59918, H83630, BE395723, BF854346, AA814257, AI285355, AA836524, BE872218, H84443, AW797132, AW797252, T24665, R29356, AW375991, BE090335, AW847201, BF037474, AI475393, AI220762, AW162194, BE084795, AL036705, AA614517, AI289310, AA037129, AL513723, AI499920, BE963810, AI918554, AW074374, AI690813, AI277008, AI955587, AL514493, AL134712, BF724911, AI270039, AI679550, AL046944, AX035212, AL137440, AK024622, AF002672, AL049314, X65873, AL133049, AF090900, AK026631, AF106657, AK024524, X66862, AF183393, AK024992, AL137530, A27171, AL133072, AF116631, AF069506, AF218023, AK026592, AF113019, AF119875, AK025424, AL137529, AL353956, AR081734, AY004290, AF267849, AF056191, I48978, AF013249, I32738, AF182215, AF260436, AF090943, AL049382, AL050172, AL137558, AF119894, AK025092, AF132730, E04257, U72621, AF143723, AL161964, AF287051, Z97214, AF116698, AK026542, AF116639, AF118070, AF038847, AF232009, AB007812, I09499, AL157431, AF115410, AL389957, AK025113, A57389, E12579, S53987, I89947, X63410, U92992, AK000476, A41575, AK024545, AF036268, AK000653, AF017437, AF113677, AF217966, AL080140, AF208850, AF107847, U90884, AF176651, AK027146,
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HPDVY52	864	105739 3	1 - 1377	15 - 1391	AU133623, BG261315, AU133968, AW959320, BE563107, BE737406, BE909112, BE736139, BE312849, BE311499, BF313356, BE542123, AL041822, BE273343, BE262136, AA459519, AW630567, BF038924, BF985233, BE873341, BF032290, W67855, BF314666, AA359598, AA433855, AA359774, AA344756, AW305152, H29096, AW167386, BF314925, AA443514, AW175941, BG012721, AU136231, AB011105, Z95636, and AL354836.
HHESW02	865	105747 8	1 - 1876	15 - 1890	AA551061, BG034640, BF001802, BF795036, AV764202, BG032289, BG259953, BF979110, BE408962, BE561363, AV760691, BG033633, BE348456, BF854361, AW402086, BF062592, BF691935, W46419, AI952866, AI718495, BF691364, AA970444, AI289901, AI095214, AI061277, AI347580, AI826942, AW511617, AA312289, BF217041, AA848029, BE560239, N68961, BF088217, W49781, BE246728, AA962522, W00660, W48762, BE729436, AA577013, AA354415, AA328452, AA989644, C01310, AI970883, AW513997, BF810694, AA355219, AW955293, AA361050, AA327850, AI264968, AA360699, BE246766, BE826080, AI087069, AW058063, AW856095, AA829953, AA358539, AA337078, BF433442, AI525090, AA319325, AW869241, AA381176, AI905583, BE711695, AU076504, AI688129, BE832438, AV651700, AV707405, AW955686, AV727550, AV709358, AF062075, AF118146, X77598, AR086332, and U38894.

HVVBW84	866	105756 1	1 - 2629	15 - 2643	BF434410, W61014, AI872367, AI982960, BF725752, BE349113, AW028096, W61021, AI088610, AA482502, AV720322, AW385011, AA496612, AI831627, AI627573, AI635628, AW139141, AA808856, AW080876, AW519062, AA284917, AA482650, AI089980, AA723505, AI366142, AW874653, BE677534, AA293118, AA719905, AA864412, BF931588, AI687706, AA429070, AI694171, AA581667, AI829189, AI752809, AA293006, AW081800, AI371181, AI016196, AI698475, AI190129, H61361, AA131558, AA131445, AA908187, AA745565, AA460613, AW193045, AA394138, AA411044, AA496606, AA640267, AA953044, AA534485, BF940862, AW366318, AA428779, AW366316, AW366317, BF349341, BF935061, AA285087, AI752810, AA290820, AA860949, BF941796, R33678, AW800410, AW884304, R56683, AA419232, AA669431, R14209, AA293359, H62387, AA496564, AI432550, AA323404, AI828225, U53082, AA535688, AA419334, AI932523, H30395, AV694871, AV686417, AV682997, AV709604, AV727314, AV725618, AV707401, AV727822, AV706223, AV706882, AW961671, AV729220, AV653353, AV652001, AV726590, AV726681, AV654035, AV707024, AV651955, BE839185, AV706532, AV655901, AV652156, AV703456, AV702954, AV726156, AV726194, AV726559, AV706183, AV703168, AV706527, AV707510, AV707933, R33574, AV727029, BE765312, AV725826, AV705047, AV687176, AV704592, AV660096, AV704553, AV726259, AV702026, AV725617, AV692345, AV702833, AV651694, AV725920, AV728997, AV709880, AV702832, AV702427, AV705384, AV702854, AV704182, AV709273, AV728715, AV704124, AV706089, AV651897, AV728471, AV702345, AV688061, AV702998, AV704955, AV701560, AV658332, AV701707, AV706165, AV702164, AV704269, AV706677, AV726787, AV728270, AV727929, AV705684, AV725956, AV703515, AV703599, AV725441, AV728012, AV703970, AV702417, AV660258, AV727103, AV707830, AI906657, AV725709, AV702817, AV703213, AV705014, AV706925, AV652528, AV709549, AI906652, AV705299, AV729597, AV727978, AV708991, AV729242, AV691615, AV705280, AV728642, AV725577, AV727238, AV726502, AV709356, AV654282, AV728404, AV705632, AV658436, AV727343, AV655577, AV701754, AV709935, AV702516, AV725582, AV651503, AV706162, AV708786, AV709580, AI906659, AV707654, AV702728, AV704116, AV707798, AV702790, AV704934, AV727583, AV702738, AV727126, AV693149, AV725645, AV656224, AV728874, AV701874, AV726628, AV706741, H14646, AV709256, AV658784, AV706910, AV706734, AV704180, AV753729, AV728312, AV656240, AV704974, AV692972, AV703436, AV725991, AV727459, AV725380, AV703542, AV728436, AV728546, AV704234, AV656283, AV701183, AV709932, AV645545, AV706758, AV701496, AB024536, AB024537, AB003184, AK000817, AB024539, AB024538, AX020190, AR038855, AR088705, AR062871, A25909, AX047063, AX009487, AX026824, AX047064, AR017907, AR079804, AR091393, AX028305, AX026823, A85395, A85476, AR062872, AR062873, AX001082, AJ244004,
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HEAAC39	867	105760 3	1 - 1498	15 - 1512	<p>AW970305, AW970218, BF589322, BE856555, AI817185, AA709141, AI808138, AA478875, W73741, BF438291, AW316562, AI078268, AI141596, AI080079, AI685566, AA568446, AI744816, C20941, AA236573, AA603741, AA478618, AI139198, W73647, AA582362, AI187807, AV729220, AV701704, AV707649, AV702673, AV706330, AV701858, AV703214, AV703086, AV706104, AV726830, AV701783, AV706012, AV701953, AV699269, AV706718, AV647692, AV702498, AV707401, AV709356, AV707420, AV729473, AV727822, AV706223, AV651897, AV725031, AV725321, AV708872, AV662242, AV699147, AV727139, AV699223, AV699153, AV701874, AV703417, AV705234, AV647654, AV701183, AV707268, AV706992, AV702783, AV699182, AV707640, AV725369, AV709935, AV708069, AV701614, AV725991, AV707311, AV702671,</p>

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HSLJC80	868	105779 7	1 - 3111	15 - 3125	AW015571, BE062375, BE062376, BF115021, A1743133, BF345439, N46870, BE062349, AW469388, A1743132, A1655602, A1971441, BE466808, A1279521, BE677454, AW613424, AW361217, A1675397, A1925033, A1950217, AW753254, A1453144, AW629918, BF475424, A1623681, BF475334, BE939173, BE185689, AW361218, A1673826, A1359081, A1587561, BE677635, BE839901, AA448109, AA447610, A1084947, AV709700, A1634916, A1499501, AW580849, BF927416, BF847698, AA346223, AW796056, N47191, BG150486, AA557783, H26374, BF836746, A1904592, A1904600, AW748401, H27486, BF356963, AA255594, AA255432, BF995433, A1587580, AA249516, N47207, AW796055, AW580825, and AL122104.
HEOAD12	869	105784 2	1 - 1124	15 - 1138	BF307050, BE294659, BE295378, BE270183, BF306043, BF304968, BE299101, AA380349, W19499, BE832758, AW882273, AW263540, AA157229, AA225180, AW409843, AA151564, AA909334, AY009951, and AF116865.
HVVBT41	870	105788 0	1 - 1835	15 - 1849	AL520942, AL520941, AL524223, BF975546, BE790646, BE250104, BE741659, BE908458, BF346226, BG253282, A1992170, BE271697, BE891409, BG116444, BG032571, BE383072, AL534026, BE390699, BE257602, AL534027, AL134371, BE250877, BE790095, AA527588, BF316156, A1249023, BG170667, AL524222, BF313879, BE393833, AW007167, A1193019, A1435295, AW249684, AA315000, A1887652, AW160553, AW629814, BE831627, AA419118, A1878843, A1143093, BE795572, AA639468, A1762318, A1141843, BE305036, AW630286, A1093040, BE272301, A1355887, A1469829, BG059403, AW058047, BE891650, BF432375, AA769826, AA516117, AW954502, AW406598, AW245217, A1500434, BE907766, A1360848,

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HAZAE42	871	105791 5	1 - 877	15 - 891	BE618433, BE264353, BE313324, BE263795, BE383317, AI912683, BE618668, AA779820, AA991941, BF337731, BF965805, BG149406, BF057515, BE550120, BE793000, AI161191, N92707, AA926829, AA602406, AA911645, AI032667, BE503970, AA844970, AA576535, AA936479, AI094810, AI312822, AI365506, BE264410, AI143188, AA677341, AI091456, AI298331, AI273560, AI094902, AW470381, AI095731, AI277885, W79024, AI161190, AA729304, AI393476, AW949867, AU126753, AA948313, AI355600, AA861985, AA922331, AW160933, AA719310, AW162238, AI161149, AI041523, AI339212, AI014445, AI078542, AA987978, AI078619, AI350176, BE464539, AA935049, AA972852, AI817990, AI312673, W15310, AI935214, W39738, AI669550, H42852, AI873672, BF508021, BF437071, BE673460, AI873653, AI095798, AA991983, AA115875, AA594838, BE925134, AA534320, AW964391, AI240950, BF748841, AI092670, AA502784, AA580530, AI219314, BG152840, AW162538, AI432612, AI424202, T29324, AW381155, AI972574, BF350356, AW381156, AW381157, AW381154, AW381160, AW381158, AI673210, AA902771, AI865515, AW381367, AA340935, H42452, AI700003, AI141677, BF061619, W20323, AA297723, N84685, AW237917, BF847511, AW371365, AA594920, AW160737, AA364730, AA700832, AI740998, AW381361, AI971961, T19132, BE646310, BF058452, AI873154, BE299714, AA129778, AW381159, AA129681, AA371867, AW518312, N91971, W24300, BF941876, AW189399, BF933605, AA933767, AA628047, AA115874, AA911071, AL119457, AL119324, AL119399, AW877209, AI284131, AL134524, AL042544, AL043152, W95140, AL119443, AA745155, BF213477, AI961590, BF034010, AW804686, AW081670, BG176595, AW392670, M11433, X07437, X60367, M36809, M16459, M19257, X07438, AX030435,

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HPRBN60	872	105794 8	1 - 1292	15 - 1306	<p>BF337618, BE255115, AW603700, BE896817, AW603677, BE672938, BE276149, BE574363, AW937845, BE252116, AW849081, BE561148, AW376536, AW849079, BE514132, AW384020, AW384003, AA043138, BF348905, BE560153, AL047014, AA152015, BE156263, AA147575, AW384016, AW848806, AA594982, AI825953, AW937773, AA446384, BE396902, AI422448, AW952134, AI160548, BE856434, AA211287, C03422, BE385571, AW384004, AW381024, AI572008, BE730503, H10239, F36732, AA528114, BE706949, BE156337, AA152022, Z33590, Z37011, AA040869, AI149862, N49013, BE156286, R84898, F12229, AA152219, R56182, R54122, H26826, R55910, Z24984, H13040, AW875889, AA318749, BF994321, Z25108, R13067, BE857659, BF477403, H26349, T66390, BF673084, BG010755, H22780, AA030050, C04576, AW516130, BF692959, F26947, AA429964, D57868, R20192, F29092, BE858947, F30389, D62688, C16326, AI096674, F09858, AI139180, AI201475, AW390825, Z28845, AA443358, AI139454, AW068999, R40498, AA037606, AI373942, T25134, AA156446, C16141, D57713, AA152096, F18878, AI032649, AA090702, W59970, Z28703, AW190966, AI720482, R56071, AI339673, R55825, AI368681, AA595134, C16104, BE706948, BF350778, AA993887, BF445806, AI147605, BE156340, H05938, AI200609, D57624, D57729, AA211332, D58131, D57532, AI582955, AI148481, BF978143, N48284, D56502, AA972352, AX013692, AF002282, AF039018, AF002280, AF002283, AF002281, and AJ249218.</p>
HOVCZ68	873	105795 8	1 - 2115	15 - 2129	<p>BG116678, BF243086, AA460133, AV662045, AV687215, AV724260, AV702152, AW450588, BF438173, AA236796, BF214971, AI653152, AA700186, AW963679, BE740138, AI692488, AW885555, AI744585, AW293745, AA693931, BF983866, AW304368, BF195586, AI214602, AA236842, BF360988, AA461488, AI341662, AI653052, AA701860, BE563637, AI420813, AI695758, AW296315, AI864175, AW957517, AI214697, AI022448, AI246345, AI038613, AI638793, AI631642, AI805779, AW019975, AW020821, AW068525, BG179259, BF223132, AI633543, AI655217, AW608280, AV693632, AW886582, AA374097, AI905366, AA450279, AW026664, R00254, AI002466, AA244063, AI391492, AA194965, AW885727, AI249184, AI811272, AW594616, AI420637, T55576, AA340655, T29589, AI168319, AA404500, AA384360, R01927, AA373240, BF360633, AV690607, AW883206, BE833779, AW068788, AV684001, AW367046, BF063831, AW884828, AI271355, R00364, BF588606, R01976, AW605113, AW883935, AA195600, AI263408, AW886854, AW885124, BE833700,</p>

H6EDF71	874	105797 9	1 - 1188	15 - 1202	<p>AW884903, BF221516, BE833419, AW884834, BE833389, AW884738, BE833749, BE833442, C00050, BF835575, AW885144, BE833470, AA460134, A1014726, BE933542, AW193605, AW772678, BF832527, BE833582, AW055115, AW275486, BG115992, AA723812, BE833498, BE833745, AW886485, AW882507, BE833440, AA024439, C00678, A1802365, AL514359, AB010829, M63123, I09271, L21716, X83377, M19481, Z29532, M36512, M19529, M19480, M31591, X87609, S69801, M31588, M31590, M31589, M31587, and S77841.</p> <p>AL520437, AU142804, AL529893, AL532350, BE746380, BE790665, BF338510, BF032858, BE879618, BF685188, BG111720, BF038502, BE876973, BE874884, BE514853, AL520436, AU128255, BE746932, BE271355, BE878839, BF037429, BG260711, BE929847, BE787588, BF085958, BE929836, BE394324, BE514701, BF034098, BE745477, BF032757, A1961479, BF034418, AW190446, AW580763, BF856484, BE929826, BF085962, AW794866, A1923277, BF036383, BE271711, BF367936, BG163405, BF036043, BF085965, A1884400, AW129387, AW470030, BF085961, BF367954, BF838606, BF033708, BF155010, BE929780, BF893428, A1432621, BF112058, A1701980, AA478755, AA418709, BG003366, W93910, A1635480, W93648, BE929849, BF792654, BF094272, A1491762, AA418855, AA918056, BF792592, A1270167, BF874313, AA938271, AA558268, A1707674, A1338213, AW803891, A17178327, A1613026, AA418701, BE880059, AA471190, AA455447, A1082024, A1476785, BF834237, A1280720, A1275229, AW817309, A1708271, A1742309, AA588253, A1167998, A1857345, AA455448, BF315654, BF089052, BF089047, BF831778, AA834685, BE825546, AA669129, AW090377, A1445021, A1016116, AW749412, AW662036, AA773707, AA773711, A1474588, BE094468, R31499, X69398, Z25521, AB012693, Z25524, D87659, and AF017437.</p> <p>AL526177, BE253593, AL532360, BE799956, AL527147, BE798900, BE731866, AL526332, BE791805, BF311672, BE887602, BE887139, BE906158, BG032280, BE274611, BE790863, BE747125, BE793231, BG033981, BE794214, BG105698, BE795680, BE883369, BE314315, BE888057, BG030175, BF037460, BE269400, BE798571, BF794891, BE382478, BE889569, BF205550, AL524393, BG165274, BE612547, BF315624, BG122586, BE262243, BG036814, BF968944, BE729909, BE264533, BE887730, BE252503, BE267719, A1678077, BE728326, BE292738, A1884863, BE407519, BE885803, BF206103, BE278817, BG177708, BE880576, BF317101, BE513876, BE207288, BE793544, BE794750, A1869333, A1884942, BE621419, AL524942, BF689214, BE562063, BE268715, BE907860, AL532359, A1859296, AL524941, BF317484, AA829937, AW250313, BF308280, AW300936, BE782513, AW665495, BE542407, A1571293, BE730436, BF792913, BG179097, BF969617, AW674596, AW273060, BG250687, BF684404, BF205595, BF970179, BG056166, BE312868, BE891748, BF971047, BE261776, BG116513, AW615753, AW248281, BG167242, BF035772, AA582906, BE297066, AW615587, BE392439, BF203659, BF128828, BE896101, BE884376, AA928110, BE781600, BE408171, BE780535, BG122278, BG031477, AA283711, A1589898, BF038700,</p>
HCOOF60	875	105800 1	1 - 1061	15 - 1075	



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HVVBH81	876	105805 9	1 - 3719	15 - 3733	<p>AL518676, AL518677, AL531304, AU141086, AU118214, AI373164, AU133052, BE270816, AU135714, AU120690, AL534584, AW850569, BG116153, BF980876, AU131160, AU124508, AU126480, AL042922, AL531305, BG257200, BE882992, AU133074, AU136504, AV728061, AV726133, BG258667, BG181161, BE893908, BG252256, BF983502, AV757242, BG260910, BE891169, AI831087, BF983539, BG250922, AU139474, BG251940, BE542434, BG250000, BG027005, AU127917, BG032069, BE897086, AU130237, BE891054, BE897202, AW105385, AU127922, BE087523, BF795690, BF797994, BE294893, BE514490, AV712214, BF791761, BG108276, BE888881, AU123253, BF672104, BE904546, AU122800, BE268292, AW991449, BE874925, BG114816, AU120326, AV715180, BE886051, BF982166, BE879865, BE304478, AW604316, BE268335, AW377087, BF681298, BF304610, BF690679, BE620261, AW953561, BE871794, BE514422, BF696991, BG120797, BF686663, BE784110, BF245659,</p>

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HSPTJ51	877	105817 2	1 - 3338	15 - 3352	AU117722, AU117639, AU125461, BG257346, AU125320, BG259614, AL041666, AU134919, BE887285, BF340359, BE270501, BF971008, AU125165, AA593983, BG254919, BG119566, BF791982, BG027717, BG117307, AU129485, AU128253, BF673138, BE410718, AW574556, AW500522, BG177695, BE797876, AL040633, BE770449, BE770431, BE736836, AI742708, BF978550, AI767520, AI742404, BE504225, BF111089, BE910115, AI681786, AU127139, BE545374, BF516249, AI908291, AU152319, BF056960, AW055010, AA126621, BE781576, AI333650, BE467323, AU144420, BE575212, AW996837, AA702137, AA206018, AA701911, AA126494, BE672572, BE737023, BF185788, BE789485, BF978567, AW602159, BF736100, BF820317, AI803067, N36960, AI088039, AL046313, BF132901, BF735867, BE707249, BF477588, AA024996, BF216802, AI912291, AI394065, AI805781, AA887081, AW029557, BF791743, BE217919, BF212498, BF736081, AI300960, AI376119, AA868717, AA121662, BF898020, AA526920, AI435569, AI075870, AA450145, AI436181, AA889549, AA548268, AW674271, AI636640, W58617, W58616, BF221495, AI686830, AW236479, BF244753, BE502359, AA255800, AI417171, AI916972, BE677826, BF035948, BF876879, BE694966, AA835638, AA447229, AA926978, AI208286, R95825, AA133188, AA609764, BF735994, AA558595, AA663764, R95776, T31467, BF475395, BF571998, AW401693, AA450088, BF736109, R83440, H54350, BF759908, AA972925, AW268985, AL041665, AW674569, BF029677, T06718, AA847564, AW996718, R19916, R67673, AI701761, BF977723, AA641688, AI707476, AW008306, AI749513, BE695062, AA332616, AI248393, BG260186, H53515, AA872693, H21971, AA732501, AI936949, AI093590, AA987830, AV654826, BF210714, AA872122, AA336781, AI379404, BF575890, AL039844, BF571552, H54140, AA025231, AA135593, N46277, N44961, R45136, AA361881, BF063891, Z43024, AA206243, AI570851, AA334590, BE148526, W60520, BF897472, AW674396, AA025992, AA885215, T19008, AW366176, BF910491, BF224308, BE731752, AW263468, AA171577, BE835030, BE080810, AW470374, R50245, Z39126, R66073, H53885, BF812753, AW361717, BF741506, W56208, BE409150, AI572255, AI123071, AA328659, AI003177, AA311578, R55217, R55214, AA630696, AI967952, AI560080, AI691108, AW998198, AA133216, AA135680, D19755, AA027062, AU127146, R34179, AI537428, BF821498, BF931991, AA101379, AA024952, T10703, AW129393, W21413, BE042729, AA235267, N93581,

HOPKC80	878	105817 4	1 - 1490	15 - 1504	R34301, BF736040, AA026853, AA285351, R55216, BF825296, BG114664, U66615, U85614, A21853, AA780983, AI885909, and AW149246. AI148864, BE673121, AW080794, BF036486, AW170514, AW006431, AI188759, AI832265, AW001480, AW471370, BF439239, AW168034, AW129649, AA769641, AW172714, BE867358, BG251850, BF516562, BE869511, AI598083, BE512714, BG250319, BG248190, BE740431, AA552439, AI587171, AI151456, AA151778, BF229956, AI684150, BE612973, AI339143, BE962486, AA621571, AI221080, AI279608, AW818139, BE868659, AI347951, AA512993, AI471439, AW243807, AA627704, AA973368, AI346482, AW952945, AI050852, BE742221, AA194025, AA410196, AI262321, BF333880, BF034695, AI829191, AA808606, AI344709, AA832492, AI984534, AA149786, AI189417, AI446633, BG251275, BG248564, BE280342, AI828290, AA580361, AI206376, AI924092, T98835, AW273245, AI300760, BE617957, AI271915, BF037659, AA133687, AI074095, AA659629, AW450853, W07258, BE872881, BE617516, BE613433, AI435798, AA976596, AA603691, AW292998, AI950654, AA875879, AI244806, N29871, AA948384, AA946812, AA862576, AI804146, AI982855, AA812251, N79741, AA888824, AI832503, AA133726, AA577501, AA297383, AI220826, BF824752, AA297386, BE963095, AA535896, AW571512, H95187, AA287234, W79526, AW190388, AA631290, AA908173, AA872504, R47933, AA496489, AI301669, AA427910, AA297379, R69472, AA284504, AW004671, AA746077, AA989485, T98916, BE074801, AA487702, AA297484, AA297153, AA464649, AA292774, AW170481, AI963760, W79558, AA394263, AI986058, AA903542, U46323, AW079683, AA487488, T98961, AI342966, AI982682, BF764771, AA287210, BF766656, BF749186, AA297527, AW845358, AA861541, AA297453, AA557937, AA133595, AA464548, AA553875, AW844388, AA486446, AI275661, AI719497, AA496440, AA481372, AI673125, AA565649, AA341051, C21003, BF801101, AA428283, BF512723, BE541671, BF761672, AA298491, AA421514, AI749779, AW007555, AA411012, AI273816, N57294, AW997921, BF765464, BF854746, AA133686, AA411355, AW841964, AW578145, BF743003, T33668, AJ011497, AX013131, AC003688, AF087825, AK026651, AP001726, AL137550, AB052191, I89947, AF069506, AL137480, I48978, AF159615, A70386, AF102578, A77033, A77035, A08910, A08909, AB047904, AK026408, AF130100, AF116631, AL050024, AF232009, X83544, AL049347, AL137459, AF177401, AF287051, AR038854, AF026816, AK026744, AK027164, A08913, AF116646, AX020124, U73682, AK025435, AF130099, AL110280, AX026824, AX026823, A58524, A58523, AL122110, AF130055, AF183393, Y14314, AL117435, AK026462, AK000614, AF116688, AK027096, AL080159, AL389935, AL035458, AL122050, AF225424, AF124728, AB047631, U80742, AL137548, Z97214, AL137539, AF087943, AK027173, AL117457, AR068753, AL137533, AR034821, AF130089, AK026534, AF113019, A07588, S36676, S83440, E02221, AK026464, X82434, Y16645, AF116609, AX019230, AL133113, U35846, AL389982, AF119899, Z82022, AL157431, I25049, AL353940, AF185576, AL080126,
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HBPND88	884	105843 2	1 - 1654	15 - 1668	AI653962, N93997, BE814943, BF968175, AA099287, BE069149, AA992993, H59747, AI382699, BE762660, AA193336, BF832457, N68336, AA195624, BE762665, R02676, AA779224, AA434186, BF915332, BF913628, AW849392, BE785335, BF834708, AW580726, BE817553, AA703327, BF748886, AI569835, AI609893, AA532844, BF737605, R02558, AU138624, AK027080, L04270, AC005840, L04489, Z60529, and Z60528. BE615224, BF974796, AU132631, BG252686, BF036381, BE744679, BE740700, BE784065, BE741037, BE870583, BE783600, BE315141, AI857926, BG121384, AU128421, BE676244, AI096784, AI824089, BF129146, BG261122, AI566720, AI590852, AW577409, AI554235, AI709019, BG259942, BG256545, BE873242, AI951111, AA582008, AI024357, AW860933, AW574909, AW606350, AI024358, AW606339, BF212354, AI984018, AA641635, AW403912, AA548740, AV734560, BE616658, W44640, AW378698, AW008483, BE879355, AW517722, AA932007, W44591, AU154129, BG256978, AW958978, AW853916, AA421595, AI205862, AA573256, AW362690, BE206690, AW352349, AW362698, BE244720, AU150706, AW250842, AA642910, AW352318, BE156106, AI192294, AI160589, BE543557, AW362692, BE156105, AI187338, AI421712, AI299736, AA130878, AU150462, BE161073, AA535063, AI554396, W07326, BF678445, BE834400, N92107, BE019001, AA470770, AA130933, AA569838, AA988136, AW001943, BE735895, AU128155, AA460364, N53170, AA315063, AW772716, AI274117, BF244025, AW662589, AW602872, AI335615, AW406216, AI290108, AI139592, AI032261, AA838050, W01531, AI613128, N92121, AI131036, AI624226, AW352345, AA588808, AI763266, AI394387, AW954028, W46299, BF999420, T93259, N63681, BF724474, AA157266, AA460799, AI493937, BE177207, AA421600, AA843673, AA993704, T92924, AA565667, AI827053, BF769437, AW302875, AW438715, AA669520, AI818711, BE180900, AA052961, AA857793, AA130862, AI344838, AI720393, AA639727, AI434694, N68526, F28096, AW050927, BE812263, AI434916, AA159267, W05542, AA969820, AI922225, D58762, AW840594, AA084567, T94581, AI148091, AA305546, H66245, AA857514, AA158675, BE019836, BF357912, W05544, AI621340, T91658, AI873683, T67553, AA143760, AA182564, AI687946, T64449, BF808620, N30673, AI270475, AW580585, BE856075, AA626388, BE825341, BF351421, AI920997, N65988, N75821, W00721, AW352347, N23857, T49600, AA159379, T92931, AA528166, AW367629, F30131, AA115574, C17636, T30308, F33017, N95098, AW838238, H42817, AA653594, AA157178, AI345670, AA376203, BE717290, H51701, AW352304, AI265770, AW837093, N58607, T63698, H87042, BE717282, F34031, AI424416, BF350765, W70166, Z30199, N29321, AA317868, T35114, AA130918, H43818, AW838323, H78339, AA553823, D57286, C00048, AA477981, AI468232, BE720575, AW129064, BE836844, R72542, AA069318, BF771595, R64220, F35944, C17008, T63371, H64499, AA304026, AA862588, H70624, BF809711, BE767517, AA984867, AW956593, N94430, W70108, U90878, AF053367, U23769, T49599, T57830, T62020, T62211, T64525, T65791, T65908,
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H6EEO05	885	105843 8	1 - 2416	15 - 2430	<p>T82387, T93040, T93047, T93320, T93492, T93997, T94274, T69549, T86197, T86198, R14972, R32413, R32414, R63098, R63148, R64122, H45790, H45791, H64498, H78340, H87706, N57013, N71161, N71163, AA027353, AA029234, AA032209, AA033663, AA065047, AA074884, AA115598, AA115548, AA115135, AA158674, AA182590, AA224387, AA425824, AA426288, AA559013, F16467, AA902776, AA927778, AA436424, AA477982, AA626583, M91221, A1244350, A1358180, A1365566, A1365574, A1499998, A1553662, A1630937, A1631410, A1680297, A1784259, A1867029, A1886002, AW087563, AW075688, AW193309, AW342026, AW438955, and AW591794.</p> <p>AU141541, AU142138, AU120651, AL516604, AU125809, AU133877, AU125599, BE891465, BF970142, BG259581, BF795463, BE873086, BF347915, BE883289, BE019035, BF314638, BE85433, BF306026, AA702164, BF306818, BF034844, BG107555, BE389518, AA001233, BG027456, BG105546, BF736596, BE313440, AW976026, BE017961, A1921716, N58476, BE313783, A1922691, AW341468, BE781950, W52817, AU149400, AU149229, BE295775, BE207816, AA983287, A1688164, A1798829, AA676905, AA748673, AW769397, BF431049, AA580477, AW261835, AW020522, T03435, AU146658, AA031269, AA811284, A1470013, AL516603, AA553821, AW468092, AU155046, N31376, BE301482, BF248376, AW473322, A1040689, AA203586, W67599, A1308113, H14111, A1369176, R69536, AA069390, A1223241, A1081505, AA954674, N78065, A1184844, BG119995, A1084955, AA634485, A1858188, A1240972, N24082, AA227367, A1220515, A1207036, W67600, A1278789, H95812, BF920571, H72498, A1016960, BF920573, A1206577, BF125563, AW016403, AF202355, AA989138, H24195, R87799, AA889751, A1079252, AA235634, A1862906, A1129076, A1660980, AA995470, AW953096, AA864442, AW182940, D29420, AW089244, R13771, BE871844, A1762381, AW264543, R67168, AW996210, BE465230, R17270, AA665921, BF758203, T57104, N55702, AA227366, BE892968, AA918086, H72897, AA814465, R87736, AA932962, AA634537, BF816643, AA775542, AW627925, Z43480, A1735374, A1240618, AA907067, A1023689, N58699, AA747793, R14023, AA304890, A1648677, R09214, A1581401, AW085844, BF125551, AA917754, F13715, A1669014, T57172, T90491, T90587, AA324981, R41944, AA335330, AA037879, AA970995, BF687794, BF125635, AA037880, AA716132, R09324, N54187, AA639537, BF929243, H14086, AA323230, AA032267, AV750765, AA032200, AA248850, AA031394, A1921060, BF351737, A1022147, AA250785, N93684, BE171774, AA487552, AA069357, T32756, AW274651, A1932548, BF205711, AA411123, AA248912, A1687158, AA001647, BF834414, AW897716, BG171661, AA872759, AV723204, AV723062, A1096771, A1538885, AA862606, A1538764, A117423, AK023318, Y17711, AK022697, D17220, AK026784, AK027114, AL049430, AF130110, AL133560, AL137258, AL137254, S83440, AB048975, AL389947, AX015416, AL110228, AF106657, E01573, E02319, E06788, E06790, E06789, I77092, Y09972, AB032264, L04849, and AK027181.</p>
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